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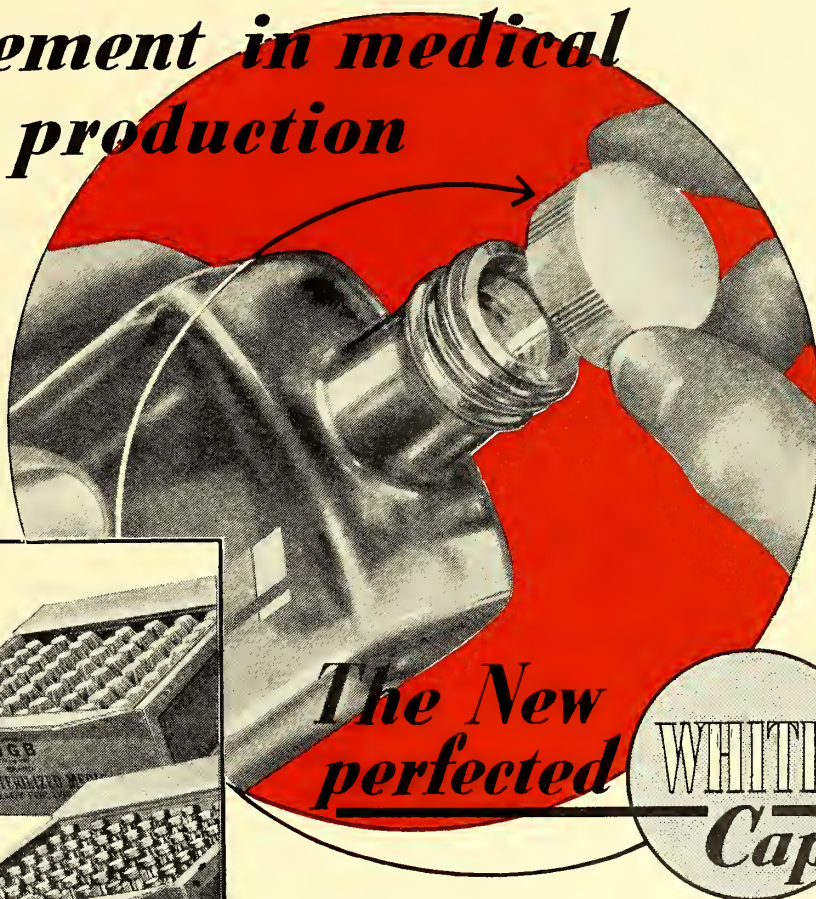
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No. 3052
VOL. CXXIX

AUGUST 6, 1938

Annual Subscription (with
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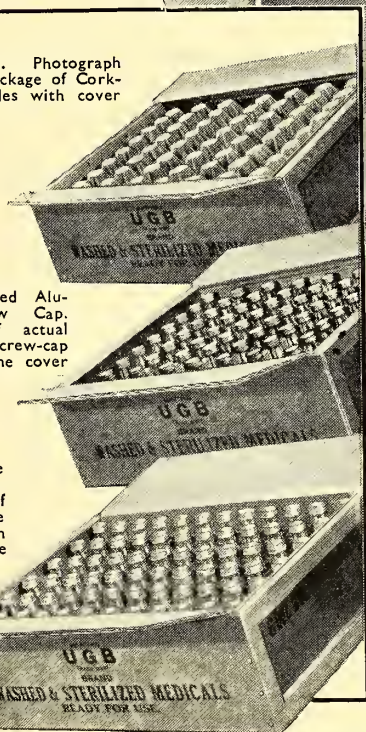
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perfected*

WHITE
Cap

Cork Mouth. Photograph of actual package of Cork-mouth bottles with cover removed.

White Enamelled Aluminium Screw Cap. Photograph of actual package of screw-cap bottles with the cover removed.

White Korkalite Moulded Cap. Photograph of actual package of bottles with White Korkalite Moulded Caps.



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Sun		7	14	21	28
Mon.	1	8	15	22	29
Tu.	2	9	16	23	30
We.	3	10	17	24	31
Th.	4	11	18	25	
Fri.	5	12	19	26	
Sat.	6	13	20	27	

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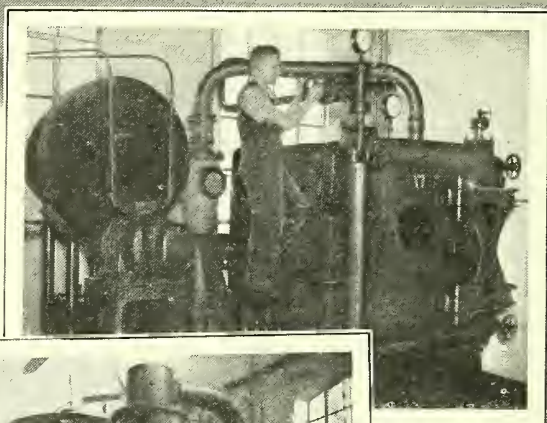
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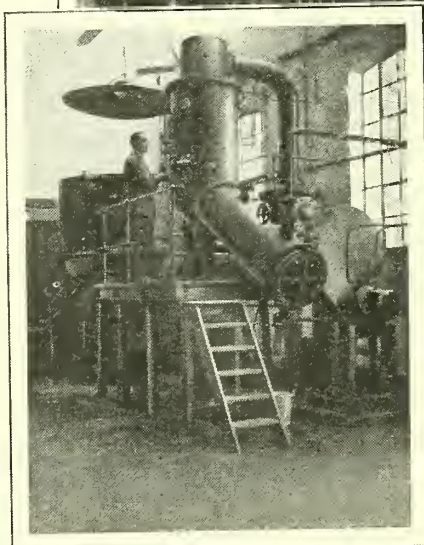
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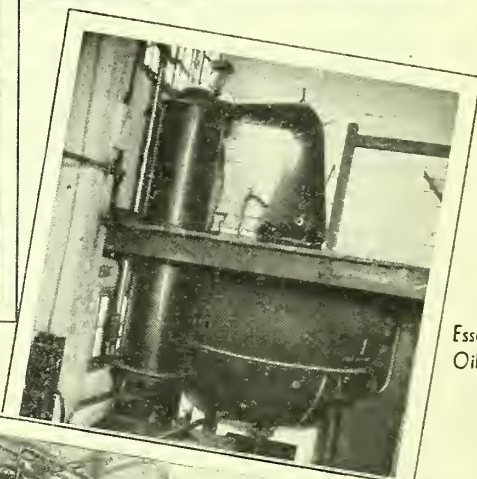
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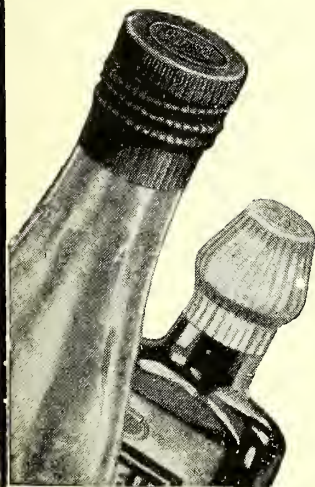
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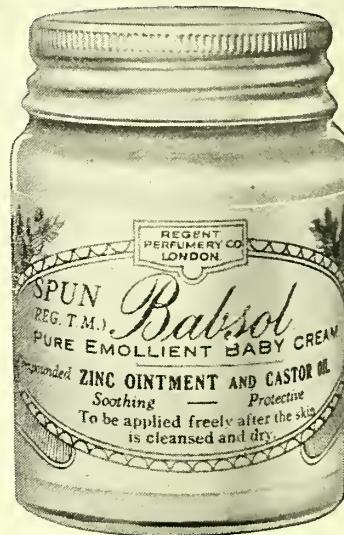
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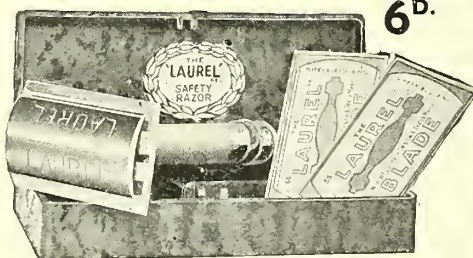
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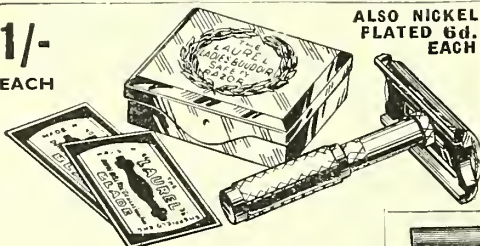


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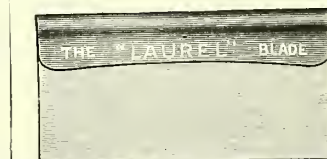
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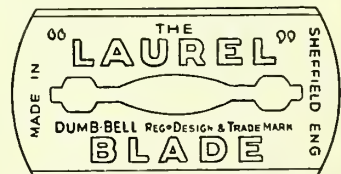
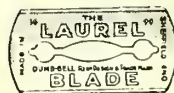
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'TOWN TALK' advertising in her favourite magazine has made her one of your most regular customers. Regular, because once she's tried 'TOWN TALK' Silver Polish she'll use no other. And remember she's not the only one, for 'TOWN TALK' Silver Polish is consistently advertised in National Daily News-

papers and high class Women's Journals, the combined net sales circulation of which is over 15,000,000 monthly. Therefore new users are constantly increasing.

Display these repeat order profit-bearing lines, and get your share of this increasing business.

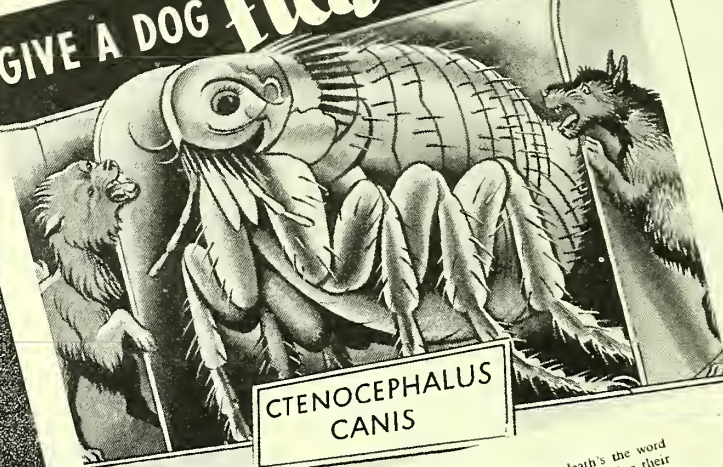
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MANCHESTER :
D. Mawdsley & Co.
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THE TOWN TALK POLISH CO., MANCHESTER, 10

GIVE A DOG flea A BAD NAME



CTENOCEPHALUS CANIS

...AND PLOT HIM OUT, quick, sharp! Sudden death's the word because a single dog flea can carry up to 20 embryo tapeworms, waiting their chance to involve you in endless trouble and expense. Eliminate this risk of worms—87% of tapeworm infections are due to dog fleas—and the other risks as well, simply by following the

COOPER HEALTH ROUTINE

1 TO PREVENT TAPEWORMS—Spend five minutes once a week dusting your dog's coat with Pulvex, to keep him free from fleas and all flea-borne parasites. A 6d. tin lasts several months.

2 TO PREVENT ROUNDWORMS—Spend thirty seconds once a day sprinkling his main meal with Cooper's Vitamin Ration, to give him vital elements he won't get any other way. A 1.6 tin lasts two months.

IF YOUR DOG HAS WORMS NOW, Cooper's Liquid Worm Remedy will rid him of the lot, tapeworms and roundworms, with as little distress and danger as may be. Then the Cooper Health Routine, faithfully followed, will prevent the need for repeated worming.

* This simple routine was devised and perfected by Cooper's own Research Bureau, which carries on the only research work done on these lines in this country. For any further information that will help you, please write as fully as you can to the Dog Remedies Department.

NO FLEA CAN LIVE on a Pulvex'd dog within a week of your dusting him, which cuts out the flea risk. The other risks are reduced to the minimum by C.V.R., which, with its vitamins A, B, and D, builds up the dog's resistance to all infections and, with its mineral salts, cures the habit of eating excrement—the main cause of roundworm infection. Eating excrement is an attempt to make good the lack of these essential salts. No normal diet can certainly provide them with the other vital factors scientifically combined in C.V.R. C.V.R. accordingly is indispensable.

PULVEX VERMIN POWDER | **COOPER'S VITAMIN RATION** | **COOPER'S LIQUID WORM REMEDY**
6d and 1/3 sprinkler tins | 1.6, 2.9, and 4.6 | Small dogs 1/3, larger dogs 2.6 bottles

FROM ALL CHEMISTS AND DOG SHOPS

COOPER, McDOUGALL & ROBERTSON LIMITED, BERKHAMSTED, HERTS

YOU CAN SPELL IT with an £ — Ctenocephalus — if you've a vet. counter giving good display to the Cooper Health Routine, now consistently advertised in the dog papers as in the above miniature. We know quite small shops with a steady 'dog' turnover of £5 per week. Start in yourself straightaway. You'll find the Cooper Health Routine a dependable mainstay—three sales in one and nine times the profit in the year.



PULVEX VERMIN POWDER 6d and 1/3 sprinkler tins	COOPER'S VITAMIN RATION 1.6, 2.9, and 4.6	COOPER'S LIQUID WORM REMEDY Small dogs 1/3, larger dogs 2.6 bottles
--	---	---

TRADE TERMS — less 33 1/3% and less 5% cash monthly

COOPER, McDOUGALL & ROBERTSON LIMITED, BERKHAMSTED, HERTS

*A unique display
container...*

for

3^d

WINGED LION PILLS

The following varieties of 3d. pills will be packed at customers request in the new 3d. pill display containers.

*Antibilious	Female
Army No. 9 (12 pills)	*Gout and Rheumatic
Aperient	(15 pills)
Back and Kidney	Head and Stomach
*Backease and Kidney	*Indigestion and Wind
Bile and Liver	Juniper
Bile and Stomach	Kidney and Bladder
(Black)	Liver
Blood and Stomach	Nerve
Bile Pills	*Neuralgia
Castor Oil	Red Clover, Sarsa-
Celery (12 pills)	parilla and Burdock
Chest and Lung	(15 pills)
Compound Rhubarb	Steel and Pennyroyal
Dandelion and Camo-	Stomach and Kidney
mile	Stomach and Liver
Digestive	Tooth and Nerve

On open orders the following 6 varieties will be sent:

NERVE	KIDNEY AND BLADDER
JUNIPER	HEAD AND STOMACH
DIGESTIVE	BILE AND LIVER

*These varieties may only be sold in Great Britain by a Chemist or registered apprentice under P.J.F. restrictions

The boxes are extracted with perfect ease from the opening clearly shown in the photograph



Refills for these containers are sent out in rolls containing 1 dozen boxes, each roll including a label which can be affixed to the container if desired in place of the ones already on the display container. Please order distinctly as REFILLS, otherwise the ordinary style of packing will be sent.

SPECIAL OFFER

THIS DISPLAY CONTAINER WILL BE SENT WITH EACH ORDER OF ONE GROSS ASSORTED PILLS (not containing more than six varieties) 3d. boxes containing 18 pills... 1/8 per doz.

Three dozen ... 1/6 per doz.

TWELVE DOZEN ... 1/4 per doz.

POTTER & CLARKE LTD.

60-64 ARTILLERY LANE, LONDON, E.1
77 DANTZIC ST., MANCHESTER, 4

Grams: Horehound, Phone, London
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SPECIALISTS IN LABEL PRINTING

In hardly more than the time it takes you to dispense a bottle of medicine we can get ready and post off to you the finest range of stock labels, cartons, wrappers, etc., you are likely ever to have seen—the result of more than a hundred years of specialisation in printing for Chemists. Write for them now.

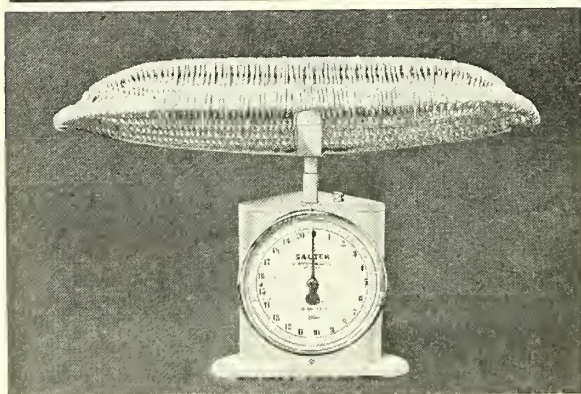
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ANDOVER, HANTS

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Telephone : Temple Bar 3464 (9 lines)

The **IDEAL BABY WEIGHER**



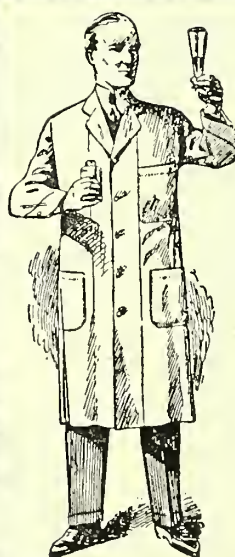
The 52B is a high quality balance, fitted with "Quick-stop" mechanism. The dial is now enlarged to 6½", is glass covered, and has a chrome-plated rim. It is especially suitable for nurseries and clinics. Complete list of all balances and personal scales available from



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GARDINERS *for* **OVERALLS**



ALL TYPES OF PROTECTIVE CLOTHING

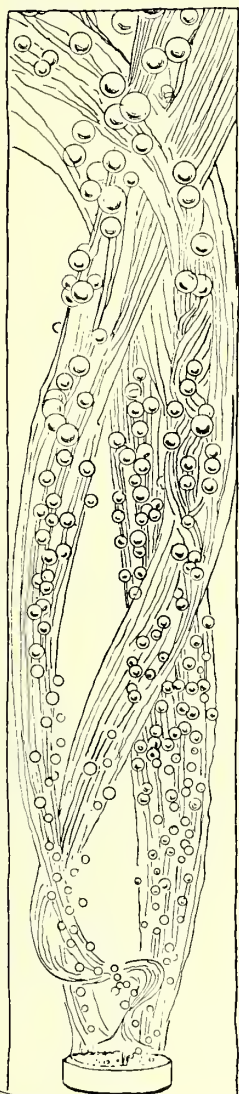
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Overalls, Acid - Proof
Garments (made to
order), Cloth & Rubber
Aprons, Rubber Boots,
Clogs.

*Garments made to Special
Designs.*

*Send P.C. for NEW
Illustrated Catalogue*

GARDINER & CO. (THE SCOTCH HOUSE) LTD.
1, 3 & 5, COMMERCIAL RD., LONDON, E.1
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Practical Effervescent Products



You can confidently recommend to your customers
'TABLOID' EFFERVESCENT PRODUCTS.

Each product is of precise dosage, eliminating the variable spoon measure. Packed hygienically in air-tight glass tubes, the effervescent properties are retained.

Always stock and display 'TABLOID' EFFERVESCENT PRODUCTS.

TRADE
MARK

'TABLOID' BRAND ALKALINE COMPOUND EFFERVESCENT

R

<i>Sodii Bicarbonatis,</i>	<i>gr. 5 (0.324 gm.)</i>	<i>Magnesii Sulphatis, Anhyd.,</i>	<i>gr. 1 (0.065 gm.)</i>
<i>Calcii Lactophosphatis,</i>	<i>gr. 3 (0.194 gm.)</i>	<i>Sodii Chloridi,</i>	<i>gr. 1 (0.065 gm.)</i>
<i>Potassii Bicarbonatis,</i>	<i>gr. 1 (0.065 gm.)</i>	<i>Salis Effervescentis,</i>	<i>q.s.</i>

Tubes of 25 products, at 1/10 per tube

TRADE
MARK

'TABLOID' BRAND THREE BROMIDES EFFERVESCENT

R

<i>Potassii Bromidi,</i>	<i>0.4 gramme (gr. 6½ approx.)</i>	<i>Ammonii Bromidi,</i>	<i>0.2 gramme (gr. 3 approx.)</i>
<i>Sodii Bromidi,</i>	<i>0.4 gramme (gr. 6½ approx.)</i>	<i>Salis Effervescentis,</i>	<i>q.s.</i>

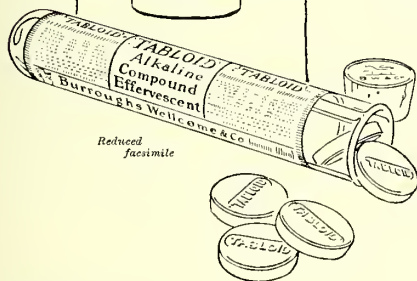
Tubes of 25 products, at 2/1 per tube

London Prices to the Trade (Subject)

See BURROUGHS WELLCOME & CO.

PRICE LIST for full list of 'TABLOID'

Effervescent Products



*Reduced
facsimile*

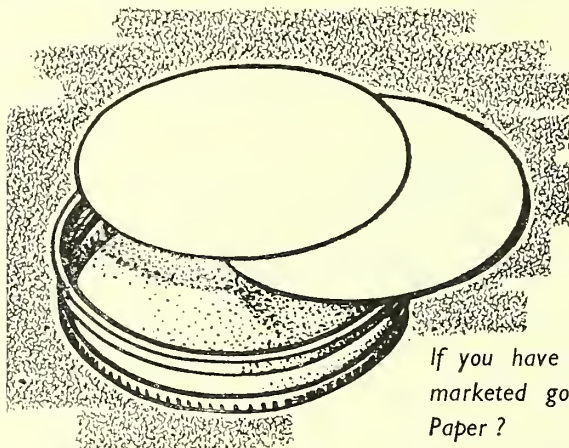


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PHARMACEUTICAL & TECHNICAL
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The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

The official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in Overseas Dominions

Published Weekly at

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AMSTERDAM-C. HOLLAND: PLANTAGE FRANSCHELAAN 32

News of the Week

Proprietary Articles Trade Association

DELETIONS FROM PROTECTED LIST.—Dr. Blosser, Ltd., Blosser brand yeast and laxative compound tablets; Blosser brand plain medicinal yeast tablets. Dearborn, Ltd., Allacite, Bicolium, Barsyde, Liquid Pergol. L.B.W., Ltd., "L.B.W." lemon barley water.

Business Changes

YARDLEY & Co., chemists, Romford, have opened a new pharmacy at 11 Elm Parade, Elm Park.

JOHN BELL, HILLS & LUCAS, LTD., wholesale druggists, have removed from Oxford Works, Tower Bridge Road, London, S.E.1, to Oxford Works, Worsley Bridge Road, S.E.26. Telephone: Beckenham 5007.

Ethical Pharmaceuticals Association

The third annual meeting of the Ethical Pharmaceuticals Association was held in London on July 19, the chairman (Mr. A. C. Henry) presiding. The audited accounts for the year ended June 30 were presented and approved. The chairman, in his report, suggested the possibility of a reduced membership subscription. The number of firms eligible for membership was restricted, but recently they have received three applications. On several occasions the committee had been asked to consider questions concerning sales policy in regard to supplies to the medical profession and to wholesale and retail chemists, and to consider whether the Association could recommend the adoption of some particular line of action, such as uniformity in discounts and trade terms. The committee was of opinion that any move in that direction would be undesirable. The Chemists' Friends scheme had received the consideration of the committee, and discussion took place with representatives of the National Pharmaceutical Union, but the committee decided that no action was called for, and left it to individual members to decide their own policy. The practice of adding to the National Formulary the names of articles alleged to be equivalents of listed proprietary products was not altogether satisfactory, and called for examination in order that rights of manufacturers might be safeguarded. The report was adopted. The following officers were elected:—**Chairman**, Mr. A. W. Edwards; **Vice-Chairman**, Mr. H. R. Napp; **Treasurer**, Mr. J. G. Gordon; **Secretary**, Mr. F. G. W. Paige; **Executive Committee**, Messrs. W. Beckley (Chas. Zimmermann & Co., Ltd., London), Hugo Wolff (Glaxo Laboratories, Ltd., Greenford), G. W. Miller (Wilcox, Jozeau & Co., Ltd., London), J. Flint (Sandoz Products, London), S. C. Ritchie (G. W. Carrick & Co., London); *ex-officio* member, A. C. Henry (Bayer Products, Ltd., London); **Auditors**, Messrs. F. C. Andscombe and Francis Riddell.

London

ASSOCIATION OF PHARMACEUTICAL EMPLOYEES.—A meeting of the London section is to be held at 17 Bloomsbury Square,

London, W.C.1, on Tuesday, August 9, at 9 p.m. (Attendance for enrolment of new members, etc., from 8.30 p.m.) The special business to be transacted includes the nominations of a secretary for the London Advisory Committee and of one member to serve on the Committee.

METROPOLITAN INTER-ASSOCIATION SPORTS.—The Metropolitan inter-Association sports for the Maw challenge shield were held at New Barnet on July 1. The last meeting was in 1936. The competitions for golf, tennis and putting took place on the Tudor sports ground (formerly belonging to Maw, Son & Sons, Ltd.), and the bowls contest was played in the nearby Victoria Park. The Associations participating are grouped into four sections as follows:—Northern Section: Northern and North-Eastern Associations; Southern: South-Western, South-Eastern and Croydon; Eastern: West Ham and Eastern District; Western: Western, West Middlesex, Harrow and Wembley. Teams were entered from each section for the various events. The play in the tennis competitions particularly was of a high order, both ladies' and gentlemen's singles providing some brilliant tennis, which was witnessed by a large number of spectators. The competition for the Maw challenge shield resulted in a win for the Northern section, with the Southern section as runners-up. Points awarded were:—Northern, $7\frac{1}{2}$; Southern, $4\frac{1}{2}$; Eastern, 3; Western, nil. The special cup for the ladies' tennis singles was won by Mrs. Downe. Through the generosity of Messrs. Maw, special prizes were provided for certain events, and these were presented by Miss Isherwood at the close of the day's play as follows:—Ladies' tennis singles, Mrs. Downe; gentlemen's tennis singles, Mr. T. J. Rawlins, jun.; ladies' putting, Mrs. R. Collings; golf, Mr. McKercher. Other results were:—Bowls, Southern (2) beat Northern (1) in the final; Tennis, mixed doubles, Northern (2) beat Eastern (1); putting, gentlemen's, Eastern (2) beat Northern (1); ladies, Northern (2) beat Southern (1); golf, North and South tied at 314 ($1\frac{1}{2}$ points each). After the presentation of the shield and other prizes a vote of thanks was accorded to Messrs. Maw. The secretary of the sports committee was then requested to convey to the East Barnet Urban District Council the thanks of the Associations for providing facilities for the competitions. Mr. G. A. Tocher carried out most of the organising work.

Manchester

BAD DEBT BUREAU.—As a result of losses sustained by local traders, Withington (Manchester) Chamber of Trade proposes to establish a bad debt bureau. Members will periodically forward to the secretary the names and addresses of defaulters, and names of people who have changed their addresses leav-

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ing accounts unpaid, these will be collated and forwarded confidentially to all members who have contributed to the list.

GOLF.—The Manchester and District Pharmaceutical Golfing Society held a four-ball match against bogey at Cavendish Golf Club, Buxton, on July 27, for prizes presented by Robinson & Sons, Ltd., Chesterfield. Messrs. S. M. Bostock and T. Miller and F. D. Gee and W. Shaw (1 down) tied for the first prizes. Nine holes were played in the evening, but the match was still all square, and the replay was postponed. Mr. W. J. Hope (captain) presided at supper, when members were the guests of Messrs. Robinson; the company was represented by Major Derbyshire. The captain expressed the indebtedness of members to their hosts for presenting the prizes for competition and for their hospitality. Major Derbyshire (a member of Cavendish Golf Club) welcomed members to his home club.

Sheffield

FOOTBALL.—The second annual general meeting of the Sheffield Chemists' Football Club was held on July 25. It was proposed that another meeting be held shortly, and anyone interested is asked to get in touch with Mr. F. Marsden, M.P.S., 280 Handsworth Road, Sheffield, 10.

ANALYST'S REPORT.—The report of the Sheffield city analyst, recently issued, includes mention of an analysis of a sample of stomach powder described on the container as "Dr. Maclean formula stomach powder as used in St. Thomas Hospital." The sample consisted of a mixture of calcium carbonate, magnesium carbonate and sodium bicarbonate; it was devoid of bismuth carbonate. The analyst gave his opinion that such a preparation should not be described as "Dr. Maclean formula stomach powder." A sample of sweet spirit of nitre was deficient in ethyl nitrite to the extent of 23.2 per cent.

Miscellaneous

DISPLAY CONTESTS AWARDS.—Mr. H. Cundall (D. & W. Gibbs, Ltd.), gained the Sir Charles Higham trophy for display of nationally advertised goods and second prize for display featuring advertising devices in the 1937-38 contest organised by the National Display Association.

IN THE COURTS.—At the Mansion House, London, recently, Leonard A. C. Connor, a motor driver, in the employ of May, Roberts & Co., Ltd., was bound over on charges of obtaining and attempting to obtain goods by false pretences from Ashton & Parsons, Ltd., Ludgate Hill.—At Marylebone Police Court, on July 29, Patricia Mallory was remanded on charges of obtaining or attempting to obtain supplies of a dangerous drug, namely, omnopon, by means of forged prescriptions.

INQUESTS.—At Knutsford, Cheshire, on July 30, a "suicide" verdict was recorded at an inquest on Dr. R. L. Barker. The coroner said that according to an analyst's report, deceased must have taken between 80-100 grains of phenobarbitone.—At Oldham, recently, at an inquiry into the circumstances connected with the death of a man who had drunk half-a-bottle of cough mixture, it was stated that the medicine was made up from a recipe he took to a chemist. A 12-oz. bottle of the mixture containing 190 doses was supplied and one of the ingredients was morphine, but not in sufficient quantity to render the preparation a dangerous drug.

LEVERHULME RESEARCH FELLOWSHIPS.—The Leverhulme Research Fellowships Advisory Committee have recommended, and the Trustees have approved, the awards for 1938. Among those to whom Fellowships have been awarded are Messrs. W. Cule Davies, Ph.D., D.Sc., Lecturer in Chemistry, University College, Cardiff (studies of the organic compounds of nitrogen, phosphorus and arsenic); S. Goldstein, M.A., Ph.D., Stokes Lecturer in Mathematics, University of Cambridge (turbulent motion of fluids); F. C. Happold, Ph.D., D.Sc., Senior Lecturer in Biochemistry, University of Leeds (nutrition of types of *C. diphtheriae* in relation to toxin production); D. A. O'Duffy, B.Sc., research and development assistant, Bahrain Petroleum Company (lubrication problems at high pressures and temperatures); G. B. B. M. Sutherland, M.A., Ph.D., Fellow, Lecturer and Director of Studies in Natural Sciences, Pembroke College, Cambridge (application of infra-red spectra to structural problems in chemistry and physics); and W. Taylor, D.Sc., Lecturer in Chemistry, The Polytechnic, London (substitution mechanisms in aliphatic compounds).

Irish Notes

Pharmaceutical Society of Ireland

The following were successful in the recent Assistants' examination held by the Pharmaceutical Society of Ireland:—Messrs. J. J. Barnett, E. J. Browne, J. F. Cosgrove, Patrick Cummins, C. Donelan, Miss N. C. Dowling, Mr. S. Downing, Miss E. M. Flynn, Mr. P. Kelly, Miss M. B. Lyons, Messrs. T. A. Matthews, M. L. M. Northridge, S. O'Murchadha, J. P. O'Neill, J. Power, J. L. Reidy, E. M. Ryan, L. Smullen.

Dangerous Drugs Exemption Order

The "Belfast Gazette" for July 29 contains an announcement that the Minister of Home Affairs for Northern Ireland, in pursuance of No. 15 of the Dangerous Drugs Regulations, 1938, under Section 7 of the Dangerous Drugs Act, 1920, made an Order on July 5 exempting from the operation of the Regulations any hospital or infirmary, mental hospital, Poor Law Institution or sanatorium supported by any public authority or out of any public funds or by a charity or voluntary subscriptions, or any nursing home registered under the Midwives and Nursing Homes Act (Northern Ireland), 1939, on compliance with certain conditions.

Dublin

"FLYING PHARMACY" * ARRIVES FROM GERMANY.—Many Dublin pharmacists and medical men were at Baldonnell Aerodrome, some ten miles from the city, on July 26, when the Bayer triple-engined Junkers monoplane, the "Flying Pharmacy," arrived with a cargo of about one and a half ton of medicinal preparations. This was the first non-stop flight of a commercial aeroplane from Germany to Ireland. By invitation, many doctors, pharmacists and others travelled in a fleet of special buses to the airport to witness the arrival. Amongst them were Mr. H. S. Forrest (president, Pharmaceutical Society of Northern Ireland) and the following members of the Pharmaceutical Society of Ireland: Messrs. J. V. McKeever and J.



Unloading the Bayer "Flying Pharmacy" after arrival at Baldonnell Aerodrome, Dublin, on July 26.

Gleeson (members of the Council), M. Costelloe, G. O'Neill, John Smith, Terenure; T. C. Scott, G. H. Batt, Dublin; A. W. Hughes (managing director, St. Dalmas (Ireland), Ltd.), and Mr. Robert Bates, Drumcondra, Dublin. At a dinner held the same evening to celebrate the fiftieth anniversary of the foundation of the Bayer Research Laboratories and the arrival of the first Ju-Bayer aeroplane in Ireland there was a large attendance of leading physicians, pharmacists and public men. The toast of "Bayer" was proposed by the Lord Mayor of Dublin and responded to by Herr W. Bernards, Leverkusen (a director of the company). Pharmacy was represented at the dinner by Messrs. B. P. Hickey (president, Pharmaceutical

Society of Ireland), P. C. Cahill (vice-president), H. S. Forrest (president, Pharmaceutical Society of Northern Ireland), P. A. Brady (president, Irish Drug Association), Richard Linehan (president, Drug Association of Northern Ireland), Frederick Moore (managing director, McMullan & Co., Belfast), A. D. Davidson (managing director, May, Roberts (Ireland), Ltd.), A. W. Hughes (managing director, St. Dalmas (Ireland), Ltd.), J. S. Fyfe (managing director, Wilcox, Jozeau & Co., Ltd.), William Gaw (managing director, W. Gaw, Ltd.), and S. T. McCauley (managing director, Irish Pharmaceuticals, Ltd.). The aeroplane returned to Germany on July 28.

Miscellaneous

BEREAVEMENT.—Mr. W. R. H. Orr, Ph.C., Ormeau Road, Belfast, has lost his brother Dr. Orr (Lord Bishop of Meath), who died on July 21.

Mr. J. SHANAHAN, L.P.S.I., Castleisland, has received many messages of sympathy from pharmaceutical friends on the death of his father, Mr. Richard Shanahan.

DRUG DEPARTMENT TURNOVER.—At the quarterly meeting of Belfast Co-operative Society, on July 28, it was announced that there had been an increase during the quarter of £548 in the turnover of the pharmacy department.

MR. THOMAS L. COLE, Ph.C. (High Sheriff), entertained the Judge (Lord Justice Best), members of the Grand Jury and a number of Government and civic officials to luncheon on the occasion of the opening of the Belfast Criminal Commission on July 19.

Scottish Notes

Miscellaneous

NEW PREMISES.—Mr. D. Hughes, M.P.S., 26 High Street, Elgin, has acquired new premises in the same thoroughfare.

BUSINESS CHANGE.—Mr. Angus Henry, M.P.S., has taken over the business of the late Mr. Joseph A. Kemp, M.P.S., 115 Cowgate, Kirkintilloch.

NEW DRUG DEPARTMENT.—Tollcross Co-operative Society, Glasgow, have opened new central premises, including a pharmacy department.

ROTARY LECTURE.—Mr. Angus F. McIntosh (managing director, Thomas Harley, Ltd.) recently addressed Perth Rotary Club on "Efficiency and Humanity in the Killing of Rodents."

CHEMISTS' FRIENDS SCHEME.—The co-operative union executive have advised co-operative societies in Scotland that they do not recommend to Scottish co-operatives participation in any scheme which restricts their action, and suggest that these societies consult the Scottish Co-operative Wholesale Society for supplies of alternative preparations made by that body. This follows the request made by the National Pharmaceutical Union under its Chemists' Friends scheme that co-operative stores in Scotland should agree to sell under their conditions. Objection is taken by the co-operatives that their stores in many cases do not qualify under the Act of 1933, and that they will therefore have their source of supplies cancelled if they agree to the terms offered.

Topical Reflections

By Xrayser

A Sketch in Black and White

Everything that Lord Horder says is certain of an attentive hearing, and before reading your perspicuous comments on his recent attack in the House of Lords on proprietary medicines (*C. & D.*, July 30, p. 105), I had scanned the speech, reported to the extent of about 2,500 words, twice. I read it with increasing wonder that a distinguished public man, who by common consent represents the best type of practising physician, should speak to a brief so narrowly drawn. The sharp blacks and whites of his lordship's sketch do not correspond to the realities of the subject with which it deals. To put the matter in another way, if it is true, as I heard a well-known playwright suggest a few months ago, that poets are always simplifying, Lord Horder must be at heart a poet of considerable attainment. He tells us that his complaint is not so much about the nasty medicines as about the nasty way they are advertised: "It was becoming more and more obvious that the very head and front of the offence of quack medicines was the advertisement, so often grossly misleading if not actually fraudulent." And, apparently more iniquitously still: "A number of preparations that were formerly advertised as securing quite different conditions were now vaunted as cures for malnutrition. Some people had recently become anxious about the prevalence of rheumatic diseases. Straightway the quack medicine vendors orientated their advertisements in that direction." What are we to infer from this?

The Advertiser and the Medicine

Are we to suppose that cough mixtures or neuralgia mixtures are converted into rheumatism mixtures on the suggestion of the advertising agent? Is the goodwill of a proprietary medicine of world-wide reputation to be thrown to the winds because a disease other than that for which it is used has come to the front? I can hardly think so. Or let us take the case of a proprietary medicine of local fame, which medicine the owner, having sufficient capital at command, decides to advertise on a much wider scale: does this become, *ipso facto*, a "quack" medicine? With scientific control on the one hand, and the unofficial censorship of reputable newspapers (seconded by the British Advertising Association, whose standard is an exacting one) on the other, unsatisfactory proprietary medicines find it difficult to reach any market worth having. Nor does

the subject end there. As is well known, some of the manufacturers of nationally advertised medicines have medical men on their staffs; some, also, promote independent scientific research in which medical men take part: would Lord Horder have all such qualified doctors struck off the Medical Register? In any event, busy people will continue to use and enjoy—if that is the right word—the domestic remedies to which they have been accustomed for the greater part of their lives. The "fear" upon which advertisers are said to play ignobly is, so far as my experience goes, neither a deep nor a widely diffused emotion. If we are all to acquire such perfect health that the use of medicine falls to negligible proportions, one can only suppose that the physician and the manufacturer of proprietary medicines will be equal sufferers financially, or will even disappear into other vocations. The altruism of the medical profession would, no doubt, receive such an issue with equanimity.

Antipodeal Circumlocution

The discovery that New Zealand has its own Circumlocution Office (or Offices) well befits the advent of what used to be called "the silly season"—the annual period of discussions on the great gooseberry, the bacon pig and cognate topics. A masterpiece in this kind, a description of a zip fastener that I read a few years ago in "The London Gazette" (and, unhappily, omitted to copy), may well have found its way into some of the antipodeal regions where such rulings as the licensing decision recorded in your last week's issue (pp. 97, 106) are evolved. In this case a pharmacist who wished to open a shop was kept cooling his heels for more than four months, with the result that he incurred non-productive expenditure, lost his employment, and was ultimately refused permission to trade. We are still, apparently, without information as to the ratio of shops to population regarded as normal—or, shall I say? safe—in that part of the Empire; and on the basis of the experience just cited, it is perhaps too much to expect a decision to be available within the next half-century. I have long been aware that the practice of official bodies is not to give an opinion on any question submitted to them, with the cynical corollary that if an opinion is vouchsafed it had better be too late to be of any practical value. Can limitation of pharmacies, if desired, be effected without Government control? I wonder.

Legal Reports

Pharmacy Act Cases.—At Uxbridge, on July 25, A. White (Dispensing Chemists), Ltd., were summoned for using the title "dispensing chemists" at 55 Coldharbour Lane, Hayes, at a time when no person employed there possessed a qualification to sell or dispense drugs. A fine of £5 was imposed.—At Southend, recently, Miss T. Burkinshaw, Southchurch, was summoned for selling acetanilide in a proprietary tablet in a container not labelled in the prescribed manner, and also for selling a poison, she not being an authorised seller of poisons. A fine of £2 was imposed in each case.

Injunction Granted.—In the High Court, Dublin, on July 29 Jeyes Sanitary Compounds Co. (Saorstat Eireann), Ltd., Crown Alley, Dublin, were the plaintiffs in a motion which came before Mr. Justice Johnston. They sought a permanent injunction against J. M. Reidy, Killarney, to restrain her, her servants or agents from passing off a fluid disinfectant not of the plaintiff company's manufacture as and for fluid disinfectant of the plaintiff's manufacture. It was stated that defendant was quite willing for the order to be made. Accordingly counsel asked the Court to treat the present motion as the trial of the action. Mr. Justice Johnston made an order accordingly.

Damages Awarded.—In the Waterford Circuit Court on July 27, Miss Marie Connolly, Kilsheelan, co. Tipperary, a chemist's apprentice, brought an action against Mr. Arthur Pitt, Ph.C., company director of Bell Brothers and Henry Bell, Ltd., pharmaceutical chemists, Waterford, for alleged malicious prosecution. A settlement was announced when the case was called. The proceedings were brought to clear plaintiff of all suspicion. Mr. Kingsmill Moore, K.C., for Mr. Pitt, said that not only was there nothing against Miss Connolly's character, but she had always been an exceptionally good and intelligent apprentice. She and Mr. Pitt had to a certain extent been the "victims of circumstances caused by an extraordinary series of coincidences which would have deceived the very elect." "We," said Mr. Moore, "feel that Miss Connolly was put through a most unfortunate ordeal, and we feel that every opportunity should be given to enable her to have her good reputation proclaimed in the most open way and in the greatest number of places."

Pharmacy Act (Ireland).—At Ballaghaderreen District Court on July 26, Monica Duff & Co., Ltd., merchants, Ballaghaderreen, were summoned with breaches of Section 17 of the Pharmacy Act on March 31 and April 7, in that while keeping open shop for the selling of poisons they did not employ a qualified person. On two other summonses they were charged with having on the same dates sold a Part I poison, namely, arsenic, contained in Cooper's sheep dip, and did not have an entry of the sale made in the poison-book and such entry signed by the purchaser. William J. Coogan, an inspector of the Pharmaceutical Society, gave evidence of purchasing the sheep dip on the dates in question. He was asked to sign no book and there was no entry made. The packets had not the name and address of the seller. Evidence was given of the arsenic content of each packet. Mr. J. J. Kerr, Registrar of the Society, gave evidence of receipt of the statutory letter from the defendant company stating that they did not employ a qualified person. Mr. Peter Nugent, who defended, applied for a direction on the grounds that a company could not be sued under Section 17 of the Pharmacy Act. He also submitted that as the company was licensed to sell poison under the 1908 Act the prosecution should prove the regulations under which they were bound to have the name and address of the seller on the packets of sheep dip. Mr. John J. Gaynor, solicitor, who appeared for the Pharmaceutical Society, proved the regulations by handing in a copy of the "Dublin Gazette." With regard to the contention that a company was not liable under Section 17 and could not be sued, Mr. Gaynor cited the High Court decision in Wedick v. Osmond, in which it was decided that a company was liable under Section 17 of the Pharmacy Act. He also relied upon the case of the Pharmaceutical Society v. Jacks, in which it was decided that the protection given to merchants by Section 2 of the Act of 1908 was lost if the regulations made under that Act were not complied with. A fine of £1 on each summons, with £8 iis. costs, was imposed.

Stock Exchange Prices

£1 shares unless otherwise stated	Dec. 31, 1937	June 30, 1938	July 29, 1938
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord. ...	26 0	26 0	26 3
Amalg. Dental Co., 8% Prefd. Ord. ...	25 6	25 6	26 3
Deferred £1 ...	14 0	12 6	13 3
Aspro, Ltd., 5s. shares ...	16 6	15 9	20 0
Ayrton, Saunders & Co., 7½% Pref. ...	25 6	23 3	23 3
Beechams Pills, Deferred 5s. shares ...	58 9	55 0	55 3
Benger's Food, Ord. ...	39 6	20 0	20 0
Benzol & By-Products cum. part. Pref. ...	12 6	9 4½	13 6
Berger (Lewis) & Sons, Ord. ...	56 3	52 6	52 3
Blundell Spence & Co. ...	16 3	14 0	13 6
Boake (A.), Roberts & Co., 5% Pref. ...	22 0	20 6	20 6
Boots Pure Drug, Ord. 5s. shares ...	45 6	43 3	42 6
Boots Pure Drug, 7% "A" Prefd. Ord. ...	33 0	33 0	33 0
Boots Cash Chemists (S.), 6% "A" Prefd. ...	29 0	29 0	29 0
Borax Consol., Dfd. Ord. ...	27 0	24 6	26 3
Bovril, Ord. ...	26 6	27 9	28 6
Defd. ...	22 6	19 6	20 3
British Industrial Plastics (formerly British Cyanides), Ord., 2s. shares	2 7½	2 4	2 9
British Drug Houses, The, Ord. ...	24 3	21 6	22 0
British Glues & Chemicals, 4s. Ord. ...	5 9	5 7½	5 0
British Oil and Cake Mills, Prefd. Ord. ...	46 6	44 9	45 0
British Oxygen, Ord. ...	82 6	73 9	72 6
British Photo. Indus., 6% Cum. Pref. ...	3 6	3 6	3 6
Burt, Boulton & Haywood, Ord. ...	20 6	18 9	19 9
Bush (W. J.) & Co., 5% Pref. £5 ...	105 0	102 6	103 0
Callard, Stewart & Watt, Ord. ...	4 6	3 6	2 9
Cooper, McDougall & Robertson, Ord. ...	33 0	27 9	28 0
Crosfield (Joseph) & Sons, 6½% Pref. ...	30 0	28 0	29 0
Dubarry Perfumery Ord. 1s. ...	2 7½	2 0	2 0
7½% Pref. ...	22 6	22 6	21 3
Eno's Propriet'y, Ord. 5s. ...	6 1½	5 9	6 0
Evans Sons Lescher & Webb, Ord. 6s. 8d. shares	5 3	3 3	3 3
" " " 6% cum. part. Pref.	7 9	6 3	6 3
Field (J. C. & J.), Ord. ...	23 9	22 6	23 3
Galloway (P. H.), Ord. 2s. ...	3 0	2 10½	2 10½
" " 7½% Cum. Pref. ...	26 6	27 0	26 9
Genatosan, Ltd., 1s. ...	6 4½	4 9	4 9
Gossage (William), 6½% Pref. ...	30 0	28 0	28 6
Greeff-Chemical H'dings, Cum. Pref. 10s. Ord. 5s. ...	9 6	10 3	10 0
6 10½	6 3	6 6	
Griffiths Hughes (Kruschen), Ord. ...	15 0	12 0	11 6
Grouth & Co., Ord. ...	13 0	10 0	8 9
Hodders, Ord. 1s. ...	0 9	0 9	0 9
Iford, Ltd., Ord. ...	28 9	24 0	26 9
6% Pref. ...	25 6	25 6	26 0
Imperial Chemical, 7% Pref. Ord. ...	33 6	32 4½	33 3
Ord. ...	35 0	31 9	31 6
Intern. Sponge Importers, 6% Pref. ...	7 3	4 9	4 9
Knight (John), 25% Prefd. Ord. ...	100 0	92 6	92 9
Laporte (B.) & Co., Ltd., Ord. ...	90 0	83 9	86 3
Lever Bros., Ltd., 7% Pref. ...	31 3	30 9	31 0
" " 8% Pref. ...	33 3	33 6	32 10½
" " 20% Prefd. Ord. 5s. ...	21 0	19 3	19 9
Lewis & Burrows, Ord. ...	24 9	23 9	23 9
6% Pref. ...	22 0	21 3	21 3
Liebig's Ext. of Meat, Ord. £5 ...	£15½	£15½	£16
Macleans 6% Red. Pref. ...	22 9	22 6	22 6
Mellin's Food, 6% Pref. ...	1 6	1 10½	1 9
Nathan, J. (Glaxo), 7% Pref. ...	23 6	22 9	22 6
" " 8% Prefd. 10s. ...	13 0	11 0	11 0
" " Ord. 1s. ...	6 10½	4 6	4 7½
Pears (A. & F.), 5% Deb. £100 ...	£110	£109	£109
Reckitt & Sons, Ord. ...	103 9	103 9	107 6
Sangers, Ord. 5s. ...	23 0	22 0	23 3
"Sanitas," The, Co., 9% Pref. ...	29 1½	26 9	27 0
Sanitas Trust, 10% partic. Pref. ...	29 4½	26 3	28 0
Smith (Stephen) & Co., Ord. 5s. ...	10 9	9 0	9 3
Spratt's Patent, Ord. ...	58 9	42 6	47 6
Stevenson & Howell, 6½% Cum. Pref. ...	25 0	24 0	23 6
United Glass Bottle Man., Ord. ...	49 6	48 3	49 0
Veno Drug Co., 8% Pref. ...	24 9	25 0	26 9
Virol, Ltd., Ord. ...	31 3	28 9	30 0
7% Pref. ...	24 0	24 3	24 9
White (A. J.), Ltd., Ord. 10s. ...	18 6	17 0	17 0
White (Timothy) & Taylors, 7½% Pref. Ord. 5s. ...	29 9	30 6	30 6
26 6	25 6	25 6	
Woodlands, Chemists, Ord. 5s. ...	1 0	1 3	1 1½
Wright, Layman & Umney (1932), 7% cum. Pref. ...	24 0	22 3	23 9

Company News

P.C. means Private Company and R.O. Registered Office

H. NORMAN, LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, etc. Norman H. Stephenson, Station Road, New Milton, Hants, director.

HARTLEY-RAE, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of wholesale and retail chemists, druggists, etc. Geo. E. Rae, "Clisby," Massams Lane, Freshfield, Lancs, director. R.O.: 43 Castle Street, Liverpool, 2.

LENTHERIC, LTD. (P.C.).—Capital £5,000. Objects: To carry on the business as manufacturers of and dealers in perfumes, essences, powders, etc. The first directors are to be appointed. Solicitors: Linklaters & Paines, 2 Bond Court, Walbrook, E.C.4.

E.S.J. LABORATORIES, LTD. (P.C.).—Capital £100. Objects: To carry on business as manufacturers of and dealers in chemicals, drugs, etc. The first directors are Edith Jay and Stanley J. Jack, of 5-11 Theobalds Road, W.C.1. R.O.: 72-80 Tanners Hill, Deptford, S.E.8.

WILLIAM SNOW & SONS, LTD. (P.C.).—Capital £3,000. Objects: To acquire the business of chemists and druggists formerly carried on by Wm. G. Snow and Frank Snow at 257 Price Street, 443 Price Street, 177 Laird Street and 8 Hoylake Road, all in Birkenhead.

INDUSTRIAL PAINT MANUFACTURERS, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of oil, colour, paint and varnish manufacturers and merchants, chemical manufacturers, etc. Norman A. Cooper, 7 Brunswick Gardens, W.8, director. R.O.: 2 Austin Friars, E.C.2.

PEARCE'S MEDICAL STORES, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of manufacturers of and dealers in chemicals, herbs, medicine, surgical and optical goods, etc. Austin E. Watkins, Cotlake House, Whipton, Exeter, director. R.O.: 19 South Street, Exeter.

CHARLES NEWTON (CHEMICAL WORKS), LTD. (P.C.).—Capital £3,500. Objects: To carry on the business of manufacturing chemists, manufacturers of and dealers in dyes, stains, etc. Charles Newton, director. R.O.: 65 Marriott Road, Stroud Green, N.4.

CARLTON SURGICAL CO., LTD. (P.C.).—Registered in Edinburgh. Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in medical, anatomical, orthopaedic, surgical and other appliances and accessories, etc. T. Larkin, director. R.O.: 44 Carlton Place, Glasgow, C.5.

G. E. BUSH & SON, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in surgical, veterinary and optical instruments, trusses, dressings, elastics, rubber goods, artificial eyes, etc. The directors are G. E. Bush and C. Bush. R.O.: 5 Finsbury Square, E.C.2.

JOHN G. ROBBINS, LTD. (P.C.).—Capital £500. Objects: To adopt an agreement with Mrs. Helen C. Robbins and to carry on the business of medical capsule manufacturers, chemists, druggists, etc. Mrs. Helen C. Robbins, 30 Ailsa Road, Westcliff-on-Sea, director. R.O.: 130 Romford Road, Stratford, E.15.

COLTSON'S HYGIENIC PRODUCTS, LTD. (P.C.).—Capital £3,000. Objects: To carry on the business of manufacturers of disinfectants, deodorising materials, perfumes and scents, chemists, druggists, etc. The first directors are to be appointed. Solicitors: Nash, Field & Co., Farleigh House, Lawrence Lane, E.C.2.

BUTIFIT PREPARATIONS, LTD. (P.C.).—Capital £5,000. Objects: To adopt an agreement with W. P. Hooper; and to carry on the business of manufacturers of and dealers in powders, soaps, salves, compounds, ointments, lotions, creams, perfumes and toilet requisites, etc. William P. Hooper, director. R.O.: 17 St. Paul's Road, Clifton, Bristol.

GREENS (HERTFORD STREET), LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, herbalists, drug merchants and dealers, etc. Mary E. Green, "Hollingworth," The Firs, Kenilworth Road, Coventry, director.

HAROLD MILLER, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturing and pharmaceutical chemists, herbalists, drug merchants, opticians, etc. Harold Miller (permanent managing director), Southwood Lodge, Prestbury Road, Cheltenham (director of United Chemists Association, Ltd.). Solicitors: Steel, Lane & Yeend, 1 Regent Street, Cheltenham.

WAVERLEY PREPARATIONS (MANCHESTER), LTD. (P.C.).—Capital £500. Objects: To acquire the business of a manufacturer of and dealer in perfumes, essences, soaps, ointments, powders and toilette preparations, carried on by Chas. V. Stead at 8 Grove Street, Didsbury, Manchester, as "Grove Manufacturing Co." Chas. V. Stead, 8 Grove Street, Didsbury, director. R.O.: 9 Princess Street, Manchester.

P. J. MEREINE, LTD. (P.C.).—Capital £100. Objects: To adopt an agreement with P. J. Mereine for the purchase of the businesses of Visk Products Co. and P. J. Mereine and to carry on business in oils, paint, pharmaceutical and other preparations, etc. Philip J. Mereine, 67 Priory Road, West Hampstead, N.W.6, and Henry B. Cronshaw, 125 Princess Court, Queensway, W.2, directors. R.O.: Finsbury Court, Finsbury Pavement, E.C.2.

PARTNERSHIP DISSOLVED.—HOARE, W. R., and LANGTON, R. H., 37 Station Road, Harlesden, chemists and opticians, under the style of Hoare & Langton.

T. WILSON (CHEMISTS), LTD.—At a meeting, held in London recently, it was resolved that this company be wound up voluntarily. Mr. S. A. V. Wood, Brook House, Brook Green Road, London, W.6., was appointed liquidator.

NURO (BIGGLESWADE), LTD.—Notice is given in "The London Gazette" that a meeting of the creditors of the above-named company has been convened for August 5 at the company's offices, Market Place, Biggleswade.

BRADFIELD CHEMICAL PRODUCTS, LTD.—At a meeting held in Huddersfield recently it was resolved that this company be wound up voluntarily. Mr. A. Riley, Crescent Buildings, Half Moon Street, Huddersfield, was appointed liquidator.

Private Arrangement

David Erwin Thomas, The City Drug Stores, 55 Baldwin Street, Bristol, chemist. At the recent meeting of the creditors of the above the statement of affairs showed liabilities of £1,615 os. 8d. After allowing £77 17s. 1d. for preferential claims, the net assets were £651 3s. 1d., or a deficiency of £963 17s. 7d. It was reported that the debtor commenced trading on his own account in December, 1934, when he purchased an existing business for £822, of which £200 represented the value of the goodwill, £200 for the fixtures and fittings, whilst the stock taken over was valued at £422. The debtor had little or no capital of his own, but he borrowed £600 from a relative. The balance of the purchase price was left on loan, and the vendor was now a creditor for £96. Between July 1936 and September 1937 the debtor borrowed further sums of money amounting in all to £200. A full set of books had not been kept, but it appeared that during the year to December, 1935, the turnover was £1,948, whilst in the two following years it had been £1,795 and £1,598 respectively. Between January 1 and July of the present year the sales totalled £634. Several creditors had commenced proceedings, and in order to protect the estate a deed of assignment had been executed. The creditors decided that the deed of assignment already executed should be confirmed. A committee was also appointed.

Insurance Act Dispensing

ENGLAND AND WALES

Blackburn.—The Insurance Committee has approved a scheme put forward by the Pharmaceutical Committee for dispensing prescriptions during holiday week. Four chemists are to open each night between 6.30 and 7.30 for dispensing. Chemists who are closed will display notices intimating where prescriptions can be dispensed.

Bury.—The Insurance Committee has approved a proposal by the Pharmaceutical Committee that chemists should close at 12.30 p.m. on Tuesdays throughout the year.

Essex.—Mr. G. F. Deeth (secretary, County Pharmaceutical Committee, and representative on the Essex Insurance Committee) has been appointed a member of the Medical Benefit Subcommittee and a representative of the Insurance Committee on the Executive Subcommittee of the East Anglian Joint (Pricing of Prescriptions) Committee. The following statistics relate to the supply of drugs in the Committee's area during the years 1931 to 1937:—

Year	'Scripts	Persons on Doctor's Panels	Total Cost (including insulin)	Average per 'Script
			£	d.
1931	1,440,619	333,219	49,592	8·27
1933	1,643,198	363,742	58,264	8·53
1935	1,819,415	390,153	64,955	8·57
1936	1,985,844	415,234	71,278	8·62
1937	2,106,038	441,633	76,939	8·79

Hertfordshire.—An amendment by a chemist member of the Insurance Committee to a recommendation by the Pharmaceutical Committee that a chemist should be admonished was carried at a recent meeting. The recommendation was in respect of a test prescription found to show an excess of 23.4 per cent. of ammon. carb. The amendment was to the effect that the matter of test prescriptions for dispensed medicines should be removed and that special consideration be given to the question of medicines which contained unstable drugs. The mover, Mr. E. F. Cooper, Bishop's Stortford, said it would be beneath the dignity of the Insurance Committee to approve the original recommendation. It was easy to see why there was a slight excess of ammon. carb., because it was a very unstable chemical, and every time the stopper of the bottle was removed, a portion of the substance escaped. It was impossible for a chemist to dispense it and be absolutely certain that he had the proper quantity dispensed. A chemist generally put in a little more than was expected to be put in, to prevent any deficiency, and he contended that it was wrong that that particular prescription should be made the subject of a test. A chemist's reputation should not stand or fall on a test prescription of this character, which he declared was "unsportsmanlike."

London.—Mr. J. A. Thompson (North-East London) has been elected *Chairman* of the London Pharmaceutical Committee for the year in succession to Mr. P. B. Phillips, who was accorded a vote of thanks for the manner in which he had carried out his duties. Mr. Thompson is an original member of the Committee and occupies the chair for the second time, his previous term of office being in 1925. Mr. J. Milner (South-East London) was elected *Vice-Chairman* and Mr. G. A. Tocher was re-appointed as *Secretary*. The Committee's annual report was approved for circulation to chemists on the London Panel. The report on pricing of prescriptions, February, which was read at the July meeting of the Committee, indicated a high standard of accuracy, the margin of error for the month being +0.01 per cent. The Chemists' Service Subcommittee gave particulars of seven cases dealt with under the testing scheme, as a result of which four chemists were cautioned and three censured and fined. In three cases previously dealt with, the Minister made deductions of 10s. (two) and £1.

North East Midlands.—The annual report, recently issued, of the North East Midland Prescription Bureau, gives the following local details of prescriptions issued:—

Area	Prescriptions, Dec., 1936, to Nov., 1937	Prescriptions, Dec., 1935, to Nov., 1936
Barnsley	95,263	94,867
Derby	237,928	236,245
Derbyshire	845,236	813,325
Grimsby	124,096	116,306
Halifax	200,981	202,022
Huddersfield	275,374	266,966
Lincoln	61,861	58,017
Lincs (Lindsey)	260,508	243,729
Nottingham	563,520	550,163
Nottinghamshire	638,578	610,610
Rotherham	145,672	133,627
Sheffield	1,114,155	1,093,418
Totals	4,563,172	4,419,295
Insured persons on panel	1,004,050	978,078

During the last ten years the number and value of prescriptions dealt with by the Bureau have increased steadily:—

Year	Prescriptions	Value
1928	3,602,925	£120,140
1932	3,932,057	£128,715
1936	4,419,295	£146,500
1937	4,563,172	£154,266

Portsmouth.—At the recent meeting of the Insurance Committee it was reported that in two areas, Copnor and Kingston Road, the chemists had arranged through the Portsmouth Chemists' Association rotas for Wednesday evenings, to operate from now until the end of September. This will be a one-in-three service. The N.H.I. drug bill for the first four months of 1936 was £4,825, in 1937 it had risen to £5,202, but the figures for the same period of the present year have dropped to £5,059. The number of prescriptions dispensed by panel chemists during 1937 was nearly 368,000, an increase on the previous year of about 14,000.

Surrey.—At the annual meeting of the County of Surrey Pharmaceutical Committee, held on July 6, the following officers were appointed:—*Chairman*, Mr. W. V. Burland, Guildford; *Vice-Chairman*, Mr. W. S. Howells, Richmond; *Finance Subcommittee*, Messrs. W. V. Burland; C. B. Harrison, East Sheen; W. S. Howells; and H. G. Tibbett, Sutton; *Representatives on Pharmaceutical Service Subcommittee*, Messrs. G. S. Powell, Redhill; P. Sparks, Wimbledon; and W. H. Fowler, Secretary; *Deputies*, Messrs. C. B. Harrison; W. Morrell, Richmond; and E. L. Slade, Surbiton; *Dispensing Subcommittee*, Messrs. C. P. Chesworth, Sutton; and W. M. Tims, Keston. The Committee's annual report, just published, gives the number of prescriptions dispensed in 1937 as 1,418,069 (against 1,332,643 in 1936). The value was £53,221 (against £48,585), of which £25,982 represents dispensing fees. The following table illustrates the rate of expansion:

	Insured Persons *	Scripts	Value
			£
1913	—	344,000	10,042
1915	—	346,097	12,167
1920	178,015	419,881	17,233
1925	202,982	667,058	22,718
1930	265,579	812,162	28,370
1935	329,181	1,184,390	42,666
1937	368,221	1,418,069	53,221

This is the first year in which drug cost has exceeded dispensing fees.

Paris Pharmacy Decorations

Pharmacie Bailly displays Union Jacks on the occasion of the visit to Paris of King George VI and Queen Elizabeth

IN Paris, during the recent visit of their Britannic Majesties, chemists, in common with most other business houses, arranged elegant window-displays, draped lavish decorations and displayed bunting representing the French and British colours. One of the most attractively decorated was

part of the world. Laboratories have been built in many European and overseas countries and recently a British company was formed with a factory near London. Apart from its own proprietaries, the Bailly pharmacy represents many well-known foreign proprietary manufacturers, particularly those of British and American origin; a special commercial and sales department deals with distribution.

Specialist Departments

A recent addition to the pharmacy is a large and spacious section in the Rue de Rome devoted to dietetics. This is already renowned throughout Paris for the completeness of its stock, and speedy delivery service. To accomplish its high degree of specialised organisation, the department has operated separately from the other sections (laboratory, dispensing, sales, perfumery, etc., departments). France being recognised as the Mecca of perfumery, the perfumery department holds, as might be expected, a prominent part on the ground floor. Most of the leading beauty products manufacturers have their own stands and demonstrators in this part of the pharmacy, which sells every brand of perfume. Many of the manufacturers decorated their stands in the pharmacy for the Royal visit and each stand bore a photograph of his or her Majesty.

Members of the medical profession are made specially welcome in the pharmacy, and are, in fact, provided with a special room in which they can rest, study, or consult the medical journals of the world.

Arrangement of Pharmacy

The ground floor is utilised for the retail sale of packed pharmaceutical products such as cachets, capsules, tablets, pastilles, powders, essences, oils, syrups, tinctures, wines. The upper floors are served by six lifts. On the first floor more than 18,000 different specialities are stocked. On the second floor are the departments devoted to medical and surgical apparatus and appliances, dressings, etc., as well as the optical department. The dispensing department and the analytical and clinical laboratories on the third floor are directed by pharmacists, chemists and medical men. On the next floor is the export department, while the top floors accommodate the administrative offices. The photographic department is situ-



*The Pharmacie A. Bailly,
15 Rue de Rome, Paris*

the Pharmacie A. Bailly (pronounced Buy-ee), which occupies a six-storey building close to the Gare St. Lazare. British and French flags were conspicuous above the shop, a notable permanent feature of which is the series of eighteen gilt plaques on the pilasters, representing famous pioneers in medicine and pharmacy (amongst them Galen, Hippocrates, Curie, Dumas, Lavoisier, Pasteur, Parmentier and Pelletier). The pharmacy, together with its laboratories at Nogent, employs nearly 1,000 assistants and workers and thirty-five chemists, Doctors of Pharmacy and pharmacists, all of whom are military officers who took up special positions as a guard of honour during their Majesties' visit. It will be seen that the chief feature in the special *entente* decorations consists of two immense Union Jacks stitched into tricolour drapes that extend downwards from roof to glass canopy. Between them, placed fanwise almost at roof level, are alternating smaller Jacks and tricolours.

An Outstanding Pharmacy

The Pharmacie A. Bailly is of noteworthy size and importance. Fifteen thousand customers visit the store daily, and more than 4,500,000 people are served in the course of a year. 100,000 different products are stocked, of which pharmaceutical and allied products form an important proportion. The number of proprietary medicines has increased to such an extent that over 50,000 French and foreign specialities are to-day continually in stock. The pharmacy and its products are of international reputation, and the business has representatives, agents and medical propagandists in every



Decorations in the Interior

ated in a commanding position on the ground floor and offers facilities to both amateur and professional photographers. A rapid developing and printing service during the summer months caters for visitors to Paris.

Trade Notes

ATROPINE AND ITS SALTS.—Whiffen & Sons, Ltd., Fulham, S.W.6, are advertising British-manufactured atropine alkaloid and its salts and invite inquiries.

HOUSEHOLD MEDICINES.—Potter & Clarke, Ltd., 60-64 Artillery Lane, London, E.1, are making a special offer of a display container which will be sent with each order of one gross assorted. This display cabinet is illustrated in our advertisement pages. Messrs. Potter & Clarke have just issued their July 1938 price list, which consists of 214 pages and gives a full list of the products they issue in various departments.

INSECT-BITE LOTION.—The Crookes Laboratories, Park Royal, London, N.W.10, direct attention to the seasonal demand for Karvol insect-bite lotion, concerning which bonus terms are available to qualified chemists. Display material is available for this product, which is packed in one size only.

ENLARGED CATALOGUE.—D. Mawdsley & Co., 2-6 Riga Street, Shudehill, Manchester, 4, have sent us a copy of their enlarged catalogue, which consists of 288 pages bound in stout card. This price list gives a complete list of the products handled by Messrs. Mawdsley, who state in the introduction that special features of their service are keen prices and prompt delivery.

SELO PRINTING PAPER.—A 16-page booklet entitled "Print-Making at Home," giving working details for selecting, printing, developing, fixing and finishing Selo "gaslight" printing papers, has been issued by the advertising department of Ilford, Ltd., Ilford, London. The booklet is intended for amateurs.

CHRISTMAS GIFTS.—We have received from McClure, Young & Co., Ltd., 90 Standard Road, Park Royal, London, N.W.10, a copy of their special coloured Christmas catalogue of suggestions of Christmas gifts. This is available to all chemists in the British Isles. With regard to our recent note on ephedrine specific, p. 102, there are three packs of this product and not one as stated.

Some Criminal Poisonings

A LECTURE on "Toxicology with Reference to its Criminal Aspects," given to the West London Medico-Chirurgical Society recently, is reprinted in the "West London Medical Journal" (xliii, 3). The lecturer was Sir William Willcox, M.D. In 1632, he related, a manservant was sentenced, though later acquitted, in connexion with the death of his master after taking a bolus of calomel, an inquiry establishing that death was due to corrosive poisoning. It is supposed to-day that the calomel contained mercuric chloride as an impurity. Probably with greater likelihood of guilt, though with no greater scientific proof, John Donellan was convicted of the murder of his nephew in 1780. The evidence was that he possessed a still in which he had prepared cherry laurel water, which was known to be poisonous, though not until two years later did Scheele discover hydrocyanic acid. Donellan had experimented with his distillate on animals, a fact which went against him. In the detection of murder by arsenic, chemical tests have been used since 1842, when the Reinsch test (with copper and hydrochloric acid) was discovered. An instance was also given by the lecturer in which a local pharmacist reported the presence of arsenic in the urine of a dead person whereas in the subsequent post-mortem examination its complete absence was established. On this occasion the Marsh test for arsenic was the one carried out by the pharmacist, the arsenic being probably an impurity in the zinc. To-day an electrolytic modification of the test, using platinum, has been substituted. A most useful weapon in the detection of criminal poisoning has been the accumulation of data relating to the rate of elimination from the body of certain poisons. Thus in the Black case, 1922, delayed arsenical poisoning was confirmed, and in the Armstrong case the administration of a fatal dose some days before death was proved by calculation from what remained. The analysis which established guilt has not in every case been chemical. In the Dr. Lamson case, 1882, the poison used was aconitine, for which there were no chemical tests. The analyst, however, extracted the poison from the viscera and identified it by physiological tests on himself and on mice.

National Pharmaceutical Union

Executive Meeting

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4/5 Queen Square, London, W.C.1, on July 26, Mr. S. J. Stearn in the chair.

NEW PRICES FOR OXYGEN

The executive considered the position in regard to the revised terms of the British Oxygen Co., regarding which complaints had been received from a number of chemists. It was decided to make representations to the company regarding the profit allowed at their fixed price.

NATIONAL HEALTH INSURANCE CONTRACT

The executive decided to call a conference of Pharmaceutical Committees, to be held on September 21, to consider the following propositions:—

1. That the special claim in respect of the 1937 epidemic be withdrawn, subject to the present contract being cancelled and a new contract being made on a "no discounting" basis at present tariff rates.
2. That the new contract commence on January 1, 1939, existing contract conditions to apply to 1938.
3. That the new contract be for five years.

CHEMISTS' FRIENDS MATTERS

Applications were accepted for inclusion of the following in the list: Thermogene and Thermogene Vapour Rub; New Skin. The executive approved the draft scheme for reorganisation of the C.F. Committee, to be submitted to the annual meeting of manufacturers in November. The executive also considered and approved certain applications for inclusion in the list of approved wholesalers.

CHEMISTS' EXHIBITION

The secretary reported that in accordance with the instructions of the Executive, a stand had been secured at the

Chemists' Exhibition, to be held from September 19 to 23. The promoters of the exhibition had kindly placed a box on the grand tier at the disposal of the Union executive and their friends. The date of the next meeting of the executive was altered to coincide with the exhibition.

C.D.A. Matters

The secretary reported that out of fifty-two cases outstanding from the last meeting of the directors, twenty-three might be considered closed; settlements had been effected in six of the other cases, as follows: Illness caused by meat juice (payment of £1 1s.); damage to cars caused by cycling errand boys (2 cases) (payments of £5 and £1 5s. costs, and of £2 16s. 9d.); damage caused by breaking of bottles of sulphuric acid (payment of £1 5s. 9d.); personal injuries caused by cycling errand boy (payment of £3 15s. 6d.); coat damaged by new varnish on shop counter (payment of £2 7s. 3d.).

The remaining cases were still the subject of negotiations. Fifteen new cases had arisen during the month, two of which had been settled as follows: Coat damaged by faulty bottle cap, hydrogen peroxide and ammonia (payment of £1 10s.); plants damaged by sulphur candle (payment of £3).

The remaining cases were left in the hands of the secretary. The secretary reported that a member had been summoned under the Food and Drugs (Adulteration) Act for selling sweet nitre deficient in ethyl nitrite. The case had been dismissed under the Probation of Offenders Act on payment of 25s. costs. Another member had been fined £2 for failing to keep his D.D.A. cupboard locked; a third had been fined £2 and costs, under the Pharmacy and Poisons Act, for sale of ephedrine by an unqualified man. The directors received a report upon the legal advice which had been given to members during the month and upon the seven analyses which had been provided for members under the "free" analysis benefit.

Personalities

ALDERMAN CHARLES UPSON, M.P.S., has resigned from his position as Alderman on the Gosport Borough Council owing to pressure of business.

MR. E. K. SAMWAYS, B.Pharm., Ph.C., who graduated B.Sc. (first-class honours in chemistry) at London University, recently, has joined the staff of Allen & Hanburys, Ltd.

AN announcement in last week's *C. & D.* related to the birth of a son to Mr. Geoffrey Hirst, Roundhay, Leeds. The event was erroneously connected with Mr. Geoffrey Hirst, chairman and governing director of Hirst, Brooke & Hirst, Ltd., and we much regret the inconvenience caused thereby.

MR. ALEC S. JOHNSON, J.P., M.P.S. (managing director, Robert Drane, Ltd., chemists, Cardiff), has been appointed a visiting justice to H.M. prison, Cardiff. Mr. Johnson has also recently been elected chairman of the committee for the Sir William Nickalls Convalescent Home, St. Mellons, Monmouthshire (Cardiff Royal Infirmary).

Marriages

HUEY—GOODWIN.—At St. Bartholomew's Church, Stranmillis, recently, John J. Huey, Ph.C., to Dorothy E. Goodwin.

MACMORRAN—MUNRO.—At the Station Hotel, Perth, on July 30, George H. Macmorran, Ph.C., Edinburgh, to Jessie A. W. Munro.

Deaths

CUTMORE.—At her residence, "Glencoe," St. Marychurch, Torquay, on July 20, Jessie Isabel, widow of the late Frank Cutmore, M.P.S., and mother of Mr. T. F. Cutmore, M.P.S. Preceding the interment at Torquay Cemetery, a service was held at St. Marychurch Parish Church at which the Torquay and District Branch of the Pharmaceutical Society was represented by Messrs. W. H. Wyatt (chairman) and T. D. Evans (secretary).

FAIRCLOUGH.—At his residence, 25 Kensington Palace Gardens, London, W., on August 1, Mr. Revell Anthony Fairclough, aged ninety-one. Mr. Fairclough had been associated with Lennon, Ltd., manufacturing chemists, London, S.E.1, almost the whole of his working life, first as manager, then as proprietor, and on the business being converted into a limited company, as managing and life director.

ISON.—Recently, Mr. Charles Edward Ison, M.P.S., 97 Long Street, Atherstone, aged seventy-two.

LEACH.—On July 19, Mr. John Pickering Leach, M.P.S., 29 High Street, Portsmouth, aged seventy-seven.

MULVENNA.—At 2 Narani Crescent, Northbridge, New South Wales, recently, Mr. John Mulvenna, chemist and druggist, formerly of Abbeyhill, Edinburgh. Mr. Mulvenna passed the Minor examination in 1902.

WILD.—At 65 Oakley Street, London, S.W.3, on July 27, Mr. Francis Wild, chemist and druggist, aged seventy-eight. Mr. Wild was well known in London, where for over forty years he carried on business at 100 Brompton Road, S.W.3, and took an active interest in the London (Western) Pharmacists' Association. Apprenticed in Andover, he was subsequently with Nathaniel Smith & Co., chemists, Cheltenham, and, after qualifying, spent a considerable time with John Bell & Co., in their original premises in Oxford Street. He retired from business in 1925. Mr. Wild leaves five daughters and one son, Mr. F. H. K. Wild, M.P.S., manager of M. Beetham & Son, Cheltenham. Interment took place at Brompton Cemetery on August 2.

WILLIAMS.—At his home, Liverpool Road, Chester, on July 27, Mr. David Thomas Williams, M.P.S., aged sixty-two. Mr. Williams entered the service of Cheers & Hopley, chemists, Chester, in 1895, and subsequently became a partner in the business. He leaves a widow and one son. The funeral took place on July 30.

Recent Wills

MR. THEOPHILUS DEAR, Ph.C., Eastbourne, who died on June 7, left estate of the gross value of £1,131, with net personalty £1,082.

MR. CHARLES SAMPSON ASHTON, M.P.S., 59 Montefiore Road, Hove, Sussex, formerly in business at 46 Dyke Road, who died on May 26, aged seventy-nine, left £5,963, with net personalty £5,792.

MR. THOMAS PLANT, chemist and druggist, Rosslyn, 37 Belle Vue Road, Ashborne, Derby, who died on April 24, left £37,636, with net personalty £35,402. He left £500 to the Pharmaceutical Society's Benevolent Fund.

MISS MARGARET MORRISON, 29 Ayr Court, Acton, London, W.3, late secretary of H. Bronnley & Co., Ltd., soap and perfumery manufacturers, who died on April 24 at Exmouth, Devon, left estate of the gross value of £3,186, with net personalty £3,085.

Parliamentary News

VIVISECTION ON DOGS

A Bill entitled "Prohibition of Vivisection on Dogs (Scotland)" was introduced into the House of Commons on July 26 "to provide for the abolition of vivisection upon dogs; and for purposes connected therewith." It was presented by Mr. Mathers, supported by Mr. Cassells, Mr. Groves, Mr. Thomas Henderson, Mr. Leonard, Sir Thomas Moore and Mr. Westwood. Section 1 of the Bill states: "From and after the commencement of this Act no person shall perform any vivisection on any dog, with or without the use of anaesthetics, and no person shall be licensed to perform any such experiment." A copy of the Bill, which extends to Scotland only, can be obtained at H.M. Stationery Office, price 1d.

STRYCHNINE TO KILL MOLES

Mr. Hopkin asked the Minister of Agriculture on July 28 whether his attention has been called to the damage done to agricultural land by moles and rabbits; and if he would consult with the Poisons Board with a view to relaxing or amending the rule controlling the sales of strychnine for use in agriculture?

Mr. W. S. Morrison, replying, said the answer to the first part of the question was in the affirmative. As regards the second part, the rule referred to was recommended by the Poisons Board on information that the interests of agriculture do not require the use of strychnine for the destruction of vermin, and that it is preferable that other toxic agents should be employed. He did not, therefore, feel justified in asking the Board to reconsider the matter. Strychnine is available for medicinal and scientific purposes in connection with agriculture.

ROYAL ASSENT

Prior to the motion for adjournment of the House of Commons on July 29 (until November 1) it was reported that the Food and Drugs Act, 1938, was among the measures to which Royal Assent had been given.

New Books

The Department of Scientific and Industrial Research. —*Poisonous Gases in Industry. Hydrogen Cyanide (Prussic Acid) Vapour.* H.M. Stationery Office, Kingsway, London, W.C.2. 5s.

Weiser, H. B.—*Inorganic Colloid Chemistry.* 6 in. by 9½ in. Pp. 473. 30s. Chapman & Hall, Ltd., 11 Henrietta Street, London, W.C.2. [This is the third and last volume of a treatise on inorganic chemistry so far as the colloidal behaviour of the elements and their compounds are concerned. The two preceding volumes were published respectively in 1933 and in 1935. This is a noteworthy contribution to this branch of chemistry and will be of considerable value for reference as well as a textbook in the study of the principles of colloid chemistry in connexion with inorganic substances.]



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THE CHEMIST AND DRUGGIST

VOL. CXXIX

August 6, 1938

NO. 3052

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Eucalyptus Oil Vagaries

ACCORDING to the trade, there are still some users of Australian eucalyptus oil who appear to judge the quality of this product chiefly on the strength and harshness of its odour. In other words, unless the sample when tested by the nose induces coughing, and the oil has a somewhat rank smell, it is not, in their opinion, a particularly good oil! That was the general position up to but a few years ago; it does not, however, obtain today. There are known to exist in Australia some 350 species of the genus *Eucalyptus* (N.O. *Myrtaceæ*) whose leaves yield essential oils of widely varying characters, but even when the number is reduced to the cineol-bearing varieties, the expression "eucalyptus oil" is meaningless, as it covers a range of products which vary considerably in chemical composition. The recognised standard of oil used for medicinal purposes in about 1885 contained from 20 to 30 per cent. eucalyptol or cineol; the remainder was largely phellandrene, which is now considered to be not only useless but harmful for medicinal purposes. This oil had a most unpleasant and pungent smell. With the gradual improvement in production, the standard was raised in 1898, with a minimum eucalyptol content of 55 per cent., with much phellandrene present. This oil was known as *Eucalyptus globulus*. With the discovery of still better eucalyptol bearing species of the tree and improved methods of rectification, the B.P. standard was again raised in 1932, requiring a cineol content of not less than 70 per cent., and allowing only a trace of phellandrene. It is now generally recognised that the best oil conforming to this description is derived from *E. polybractea*, and the leading producers claim that, with careful rectification of the crude product, the oil is practically free of phellandrene and devoid of objectionable aldehydes. The perfumery oil of to-day, with a citronellal content of about 90 per cent., is distilled from the leaves of *E. citriodora*; this is a particularly pleasant product.

Although conforming to the present-day B.P. specification, there is an appreciable difference, readily distinguishable by smell, in the various medicinal oils now being offered from Australia. They range from the smooth, not unpleasant *E. polybractea* type of oil to products which show but a limited improvement on the pungent old *globulus* character oils; they are possibly derived from varying and undefined species of the tree. If a little of this class of oil is rubbed on the back of the hand and then inhaled, in most instances it will cause coughing, due to the presence of irritating aldehydes. These oils, which may vary in character from time to time, may be somewhat cheaper than the recognised brands, but the price factor would appear to be discounted by their inferior medicinal value. For nasal specifics particularly, the former oils are considered to be undesirable and are in no way to be compared with the standardised and branded oils available at perhaps slightly higher prices. Oil described as eucalyptus is also offered from time to time from Japan, although there would appear to be some doubt as to whether any appreciable quantity of the true species of eucalyptus trees grow in Formosa. Japanese white camphor oil contains about 40 to 45 per cent. of cineol, and it would be an easy matter to take out the terpenes and so bring this oil up to the cineol strength required in eucalyptus oil.

Next Insurance Claims

ALTHOUGH it is not possible to discuss the claims which are likely to be made to the Ministry of Health when the existing National Health Insurance contracts are terminated, yet there are many chemists who would like to know whether or not their interests are being safeguarded so far as the method of payment is concerned. This is a question which is, we feel assured, well looked after by the National Pharmaceutical Union. It may be recalled that the introduction of juveniles to insurance necessitated a revision of view so far as the payment for dispensing medicines for these juveniles was concerned. Further, there is no question concerning the discounting clause apart from the fact that it should be abolished, and it is to be hoped and indeed anticipated that the N.P.U. Executive will press the claim for the abolition of a discounting clause which is, in effect, an uneconomic method of payment. The epidemics which occurred in 1937 and particularly in the last quarter of 1936 have not been accepted, we understand, by the Ministry of Health for special consideration in regard to payment for medicaments. It is time, therefore, that the chemist's views were put forward to the Ministry of Health in a way which will brook no argument whatsoever. The first point is that the chemist, like everyone else, is worthy of his hire, and he should not be subjected to the state of having to accept less than what he is entitled to because of some sudden change in the needs of the public.

"Made in Canada" Rulings

UNDER the above title the Department of National Revenue (Customs Division) of Canada, recently issued a notice to the effect that as certain cobalt salts and other chemical substances were now being produced in Canada, imports of United Kingdom origin of these products would no longer be allowed to be landed as free imports, but would be liable to import duties to the extent of 15 per cent. plus 8 per cent. sales tax. The combined duties are in the nature of a prohibition of imports under ordinary circumstances. This instance is a fair illustration of the method adopted in official quarters to develop and protect the Canadian chemical industry. It would, perhaps, be thought somewhat unreasonable to complain that this taxation of British goods going into Canada must incur a loss to our export trade. The total production value of the Canadian chemical industry has, of recent years, been persistently increasing; the latest figures for 1936 give an aggregate of \$126,874,791. The Dominion's exports increased by no less than 21 per cent. in 1937, shipments being valued at \$22,349,000, with exports to this country amounting to \$5,249,000. Our imports of Canadian medicinal preparations in 1936 amounted to \$650,000, and were landed here free of duty.

Registration of Trade Marks

TRADe marks are protected in the United Kingdom by the Trade Marks Act, 1938, which repealed the Trade Marks Acts, 1905, 1919 and (Amendment) 1937, so far as they were not already repealed. The new Act (Sec. 68) defines a trade mark as:—

A mark used or proposed to be used in relation to goods for the purpose of indicating, or so as to indicate, a connexion in the course of trade between the goods and some person having the right either as proprietor or as registered user to use the mark, whether with or without any indication of the identity of that person, and means in relation to a certification trade mark, a mark registered or deemed to have been registered under section thirty-seven of this Act.

Certification trade marks relate to origin, material, mode of manufacture, quality, or other characteristic (Sec. 37). A registrable trade mark (other than a certification trade mark) must contain or consist of at least one of the following essential particulars:—

- (a) The name of a company, individual, or firm, represented in a special or particular manner;
- (b) The signature of the applicant for registration or some predecessor in his business;
- (c) An invented word or invented words;
- (d) A word or words having no direct reference to the character or quality of the goods, and not being, according to its ordinary signification, a geographical name or a surname;
- (e) Any other distinctive mark, but a name, signature, or word or words, other than such as fall within the descriptions in the foregoing paragraphs (a), (b), (c) and (d), shall not be registrable under the provisions of this paragraph except upon evidence of its distinctiveness.

Registration Classes

For the purpose of registration of trade marks all merchandise has been classified, and separate fees are required for registration in each class. The classes of merchandise with which the drug trade is chiefly concerned are:—

Class 1.—Chemical products used in industry, science, photography, agriculture, horticulture, forestry; manures (natural and artificial); fire extinguishing compositions; tempering substances and chemical preparations for soldering; chemical substances for preserving foodstuffs; tanning substances; adhesive substances used in industry.

Class 2.—Paints, varnishes, lacquers; preservatives against rust and against deterioration of wood; colouring matters, dyestuffs; mordants; resins; metals in foil and powder form for painters and decorators.

Class 3.—Bleaching preparations and other substances for laundry use; cleaning, polishing, scouring and abrasive preparations; soaps; perfumery, essential oils, cosmetics, hair lotions; dentifrices.

Class 4.—Industrial oils and greases (other than edible oils and fats and essential oils); lubricants; dust laying and absorbing compositions; fuels (including motor spirit) and illuminants; candles, tapers, nightlights and wicks.

Class 5.—Pharmaceutical, veterinary and sanitary substances; infants' and invalids' foods; plasters, materials for bandaging; material for stopping teeth, dental wax; disinfectants; preparations for killing weeds and destroying vermin.

Class 9.—Scientific, nautical, surveying and electrical apparatus and instruments (including wireless), photographic, cinematographic, optical, weighing, measuring, signalling, checking (supervision), life-saving and teaching apparatus and instruments; coin and counter-freed apparatus; talking machines; cash registers; calculating machines; fire-extinguishing apparatus.

Class 10.—Surgical, medical, dental and veterinary instruments and apparatus (including artificial limbs, eyes and teeth).

Class 30.—Foodstuffs, including preparations made from cereals.

Class 31.—Agricultural, horticultural and forestry products, including malt.

Class 32.—Beer, ale and porter; mineral and aerated waters and other non-alcoholic drinks; syrups and other preparations for making beverages.

Class 33.—Wines, spirits and liqueurs.

The new classification consists of thirty-four classes—the old classification consisted of fifty.

Application for registration of a trade mark must be made to the Registrar, the Patent Office, Trade Marks Registry, 25 Southampton Buildings, Chancery Lane, London, W.C.2, form T.M. No. 2 (£1), accompanied by four representations of the trade mark—form T.M. No. 4 (free). The application must indicate if registration is sought in Part A or Part B of the Register. The distinction between Part A and Part B registration is defined by Sections 4 and 5 of the Act, and trade marks which are not capable of registration in Part A are sometimes found to be capable of registration in Part B. Two years' user of the trade mark formerly necessary as a qualification for entry of a trade mark in Part B is now dispensed with.

In all legal proceedings registration in Part A is to be conclusive as to validity after seven years unless the registration was obtained by fraud or the mark is deceptive (Sec. 13). On receipt of notification from the Registrar of acceptance of the application, an electrotype or zincotype of the trade mark must be supplied by applicant for advertisement in "The Trade Marks Journal." An electrotype or other block may be dispensed with in the case of trade marks consisting of a word or words in plain type. Applications after advertisement are subject to the payment of a further fee before certificates are granted—viz. 40s. (Form T.M. 10). In the case of rejection applicants have the right of appeal against the decision. Registrations effected under the new Act are for an initial period of seven years, subject to renewal periods of fourteen years.

Defensive Trade Marks

Subject to slightly increased fees (£3 on application and a further £3 on registration) defensive registrations may now be effected of invented "word" trade marks which have become well known for goods or classes of goods in which the proprietor does not use or propose to use the mark (Sec. 27), and provision is made for duplication of existing registrations as "defensive" marks subject to such registrations becoming "associated"—which means that they must be dealt with as one property.

In Case of Opposition

Opposition to any application for registration of a trade mark may be made within one month of advertisement of the application in "The Trade Marks Journal," Form T.M. No. 7 (cost 40s.). The opposition procedure which then follows in the ordinary course is counterstatement by the applicant (Form T.M. No. 8; 20s.); the filing of evidence under statutory declaration by the parties concerned in the dispute, etc.; and on the close of evidence hearing fee (Form T.M. No. 9; 40s.) has to be paid by both sides, when the hearing is fixed and the Registrar's decision taken. An appeal may be made by the unsuccessful party.

Trade-Mark Searches

In connexion with proposed registrations and for other purposes, it is necessary to ascertain if a mark is registered and if so, to whom it belongs. Such inquirers may avail themselves of the facilities afforded at the Patent Office, Trade Marks Registry, where there is a search department open to the public. There "word" marks are arranged alphabetically for all of the various classes of merchandise and the slips of paper upon which information is recorded give the number and page of the "Trade Marks Journal" where the fuller particulars are published. There is also a "terminal" index for "word" trade marks which is very helpful, specially for chemical names. A fee of one shilling is charged for each quarter of an hour occupied in the search, which is naturally restricted to the class or classes in which the searcher is interested. Those who are not expert in searching should employ a trade marks agent, as there are many pitfalls in searching. The Registrar makes official searches for a fee of 20s. (Form I.M. No. 28). Searches in respect of "design" trade marks may be effected by consulting the "designs" index in the particular class or classes concerned. When it is desired to learn who is the owner of a certain registered trade mark the searcher should ascertain the

number of the registration and the class in which it is registered and then inspect the Register. For this reference to the Register a further search fee of one shilling is charged. For the provisions of the new law in respect of the following matters reference should be made to the Act and the Rules:—

- (a) Preventing abuse of trade marks by competitors (Sec. 4);
- (b) Preventing abuse of trade marks (subject to written contract) (1) on repacking goods; (2) relative to mutilation of trade marks; (3) concerning the addition of matter to trade marks (Sec. 6);
- (c) The accepted name of any single chemical element or single chemical compound (Sec. 15);
- (d) Transmission of trade marks without goodwill (Sec. 22);
- (e) Non-use of registered trade mark for a period of five years (Sec. 26);
- (f) "Defensive" trade mark registrations (Sec. 27);
- (g) Registered users of trade marks (Sec. 28);
- (h) Registration of trade marks for export only (Sec. 31);
- (i) Registration of joint proprietorship (between two or more persons) (Sec. 63).

The Trade Marks Act, 1938, costs 1s., and the Rules made thereunder, S.R. & O., No. 661, Trade Marks, costs 2s. 3d. (postage extra). They may be obtained from His Majesty's Stationery Office, Kingsway, London, W.C.2, or from the Sale Branch, The Patent Office, 25 Southampton Buildings, London, W.C.2.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1938, p. 302.

(From "The Trade Marks Journal," July 20, 1938)

- "HERNEX"; for ointments and lotions for hernia (3). By Blake's Medical Stores, Ltd., 4 Tower Hill, Bristol, 2. 585,450.
- "GASTROZOL"; for stomach preparations (3). By Gedeon Richter (Gt. Britain), Ltd., 14 Weedington Road, London, N.W.5. 585,687.
- "MECHOLYL"; for medicinal chemicals (3). By E. Merck, Frankfurterstrasse 250, Darmstadt, Germany. 586,176.
- "GERMOPLAST"; for all goods (11). By Veno Drug Co., Ltd., Chester Road, Manchester, 16. 585,677. (Associated.)
- "MOBILIX"; for surgical instruments, etc. (11). By Watson & Sons (Electro-Medical), Ltd., 43 Parker Street, London, W.C.2. 586,449.
- "WINSUMA"; for perfumery, etc., excluding soap (48). By S. Sigal & Co., Ltd., 6 Swan Street, London, E.1. 585,113.
- "BIOSERM"; for perfumery, etc. (48). By J. Risler, 36 Avenue Hoche, Paris, France, and Dermo-Serum Co., Ltd., 16 Old Bond Street, London, W.1. 585,324.
- "It's You"; for all goods (48). By Elizabeth Arden, Ltd., 5 Cork Street, London, W.1. 586,004.
- "ROMANY"; for toilet preparations (48). By Romany Products, 5 High Street, London, E.16. 586,370.

APPLICATION AMENDMENTS

The specification for "GLORALOX" in Class 48, No. 584,105, by W. Hoyle and J. Entwistle, has been amended to exclude soap. The specification for "SANDRAN" in Class 2, No. 584,516, by Wright, Layman & Umney, Ltd., has been amended to "chemical substances used for veterinary and sanitary purposes."

(From "The Trade Marks Journal," July 27, 1938)

SCHEDULE III SPECIFICATIONS

- "BEDACRYL"; for all goods (1). By British Dyestuffs Corporation, Ltd., Imperial Chemical House, London, S.W.1. 586,386. (Associated.)
- "FLYQUET"; for insecticides (2). By The British Fumigants Co., Ltd., 7-8 Idol Lane, London, E.C.3. 584,120.
- "REYOT"; for insecticides (2). By "Reyot," 92 Hockliffe Road, Leighton Buzzard, Beds. 586,076.
- "FUMINOL"; for fumigants and insecticides (2). By J. Chapman & Co., 112 Victoria Dock Road, London, E.16. 584,311. (Associated.)
- "PANGLANDINE"; for glandular extracts (3). By Charles Couturier, 18 Avenue Hoche, Paris, France. 587,855.
- "CASCAROMAT"; for cascara preparations (3). By Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool. 581,682.
- "DORMOVIT"; for hypnotics (3). By Veritas Drug Co., Ltd., 94 Clerkenwell Road, London, E.C.1. 584,766.

English Herb Crop Reports

Joseph W. Seymour, Distillery Farm, Holbeach, report:—

PEPPERMINT and DILL crops are both fairly good. WHITE POPPIES are good.

John Jakson & Co. (Mitcham Road, 1921), Ltd., report:—

PEPPERMINT CROP.—The unfavourable and very dry weather experienced again during the early months has greatly retarded things, but we have put in several million young plants on our Mitcham ground, and thanks to irrigation and providing we have a spell of sunshine at the right time, both yield and quality should be excellent.

Perks & Llewellyn, Hitchin, Herts, report:—

This summer's weather has had no ill effect on our LAVENDER, which is looking very well and in excellent condition. The plants are thriving, the spikes are strong and are producing nice blooms, which will yield a fine oil and also very sweet-smelling lavender flowers.

W. J. Bush & Co., Ltd., report:—

PEPPERMINT.—Owing to the drought in the early part of the year, the crop is likely to be a poor one. The plants are healthy but the harvest will be late and unless we have more rain the yield is likely to be smaller than usual.

LAVENDER.—Again the harvest will be late owing to the frosts in May. A fair crop is expected but the yield will depend upon the weather between now and the commencement of the harvest.

CHAMOMILES.—Not very much is grown now owing to the decline in demand. We expect, however, that the small quantity produced will be of very good quality. The yield is likely to be about average.

Recent Research

Structure of Benzene

IN a Bakerian Lecture to the Royal Society on June 16, Professor C. K. Ingold stated that spectroscopic data of ordinary benzene and benzenes, in which a part or the whole of the hydrogen is substituted by deuterium, establish unequivocally a plane and regular (hexagonal) symmetry for the isolated (gaseous) benzene molecule. The prior predilection for this stereochemical structure thus proves to fit with fact.

The Vitamin D Problem

HICKMAN and GRAY ("Industrial and Engineering Chemistry," July, pp. 796-802) threw new light on the nature of vitamin D by molecular distillation and rat assay. Elimination curves for whole cod-liver oil indicate that two vitamins are present in nearly equal unitage. These are present in ester form to the extent of 70 per cent., making it desirable to saponify the oil prior to molecular distillation of the vitamin D. Two other vitamins D are also present, and the evidence distinctly favours the presence of traces of two others (i.e. six in all). The trace of vitamin D with the lowest boiling range corresponds to the smallest antirachitic molecule likely to be found which contains a choline nucleus. The data suggests that calciferol contains nine carbon atoms more than such most volatile vitamin D (which is devoid of a side chain). The variations in vitamin D appear to be mainly confined to the side chain attached to the seventeenth carbon atom of the essential choline nucleus, natural preference being for a side chain with eight to ten carbon atoms. The evidence shows that the various vitamins D vary markedly in thermal stability, the heavier vitamins being liable to break down during distillation. Thus calciferol undergoes pyrolysis in oil solution at 140° to 160° C. to form antirachitic substances of less volatility (which are more potent than calciferol). The potency of low boiling point vitamin D differs greatly from the main bulk of cod-liver oil vitamin D, being abnormally low to chickens. Vitamin D from sea bass livers gives an unusually pure elimination curve, suggesting a preponderance of a single "chicken" vitamin D in this liver-oil. The curves show that the change in biological response is marked (steep curve) in the case of lower boiling fractions (below 145° C.), whilst it remains relatively unchanged with the distillates around 160° C. (in which the curves are flat).

"C. & D." Retail Price List

INDEX figure for drugs, 155.2; surgical dressings no change.

Cost		Drugs and Chemicals	Selling Price			
d.	per		16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
15	lb.	Calcii phosphas	2 0	0 7	0 2	—
32	lb.	Derris pulv.	4 0	1 2	0 4	—
60	lb.	Elixir ephedrin	—	2 3	0 8	—
72	oz.	Ext. ergotæ S.I. (5)	—	—	10 6	1 6
150	lb.	Ext. ergot. liq. S.I. (5)	—	5 5	1 7	0 3
162	lb.	Ext. ergotæ liq. '14 .. S.I. (5)	—	5 10	1 9	0 3
222	lb.	Ext. ergot. ammon. liq. S.I. (6)	—	8 0	2 5	0 4
90	lb.	Hydrargyrum	11 3	3 3	1 0	—
81	lb.	Liq. iodi. fortis	—	3 0	0 10	0 2
25	oz.	Menthol	—	—	3 8	0 7
15	oz.	Menthol, synthetic	—	—	2 3	0 4
30	oz.	Phenobarbital R only	—	—	—	0 8
30	oz.	Phenobarbital, soluble .. R only	—	—	—	0 8
99	lb.	Potassii iodidum	—	3 6	1 0	0 2

THE following are additions to Serological Products:—

Serums and Antitoxins B.D.H.		Selling Price	
		s.	d.
Diphtheria conc. (refined)	1,500 u.	2	6
Diphtheria conc. (refined)	5,000 u.	7	6
Diphtheria conc. (refined)	8,000 u.	9	6
Diphtheria conc. (refined)	10,000 u.	11	6
Dysentery	4,000 u.	3	6
Dysentery	10,000 u.	8	6
Gas gangrene (perfring.)	4,000 u.	6	6
Gas gangrene (perfring.)	10,000 u.	15	0
Gas gangrene (polyvalent)	20 c.c.	9	0
Meningococcus	10 c.c.	3	6
Meningococcus	20 c.c.	7	0
Normal (horse)	10 c.c.	1	6
Normal (horse)	25 c.c.	3	6
Streptococ. erysip.	10 c.c.	3	6
Streptococ. polyval.	10 c.c.	3	6
Streptococ. polyval.	25 c.c.	8	6
Strept. (scarlet fever)	2,000 10 c.c. U.S.A. u.	5	6
Strept. (scarlet fever)	4,000 20 c.c. U.S.A. u.	10	6
Strept. (scarlet fever)	4,000 10 c.c. U.S.A. u.	12	6
Strept. (scarlet fever)	8,000 20 c.c. U.S.A. u.	24	0
Tetanus:—			
1,000 international units		1	9
3,000 international units		4	0
10,000 international units		10	0
20,000 units		19	0
30,000 units		28	6

Vaccines		B.D.H. s. d.	G.L. Dissolved s. d.
Acne mixed (750 mill. acne, 1,000 mill. staph.)	5 c.c.	—	7 6
Acne mixed (750 mill. acne, 1,000 mill. staph.)	10 c.c.	—	10 9
Acne mixed (750 mill. acne, 1,000 mill. staph.)	25 c.c.	—	17 6
Acne, mixed (50 mill. acne, 1,000 mill. staphyl., 200 mill. streptoc.)	1 c.c.	2 0	—
Acne, mixed (50 mill. acne, 1,000 mill. staphyl., 200 mill. streptoc.)	3 c.c.	4 6	—
Acne, mixed (250 mill. acne, 2,000 mill. staphyl., 400 mill. streptoc.)	1 c.c.	2 0	—
Acne, mixed (250 mill. acne, 2,000 mill. staphyl., 400 mill. streptoc.)	3 c.c.	4 6	—

Vaccines—contd.		B.D.H. s. d.	G.L. Dissolved s. d.
Acne, mixed (No. 2, 500 mill. acne, 1,000 mill. staphyl., 200 mill. streptoc.)	1 c.c.	2 0	—
Acne, mixed (No. 2, 500 mill. acne, 1,000 mill. staphyl., 200 mill. streptoc.)	3 c.c.	4 6	—
Catarrh, mixed	1 c.c.	2 0	—
Catarrh, mixed	3 c.c.	4 6	—
Cholera (various)	2x 1 c.c.	3 9	—
Cold (prophylactic and treatment)	3 c.c.	4 6	—
Cold (prophylactic and treatment)	5 c.c.	—	7 6
Cold (prophylactic and treatment)	10 c.c.	—	10 9
Cold (prophylactic and treatment)	25 c.c.	—	17 6
Gonococcus (various)	1 c.c.	2 0	—
Gonococcus (various)	3 c.c.	4 6	—
Gonococcus	5 c.c.	—	7 6
Gonococcus	10 c.c.	—	10 9
Gonococcus	25 c.c.	—	17 6
Gonococcus (intra-dermal)	3 c.c.	—	6 8
Influenza (various)	1 c.c.	2 0	—
Influenza (various)	3 c.c.	4 6	—
Influenza (mixed)	5 c.c.	—	7 6
Influenza (mixed)	10 c.c.	—	10 9
Influenza (mixed)	25 c.c.	—	17 6
Staphylococcus (various)	1 c.c.	2 0	—
Staphylococcus (various)	3 c.c.	4 6	—
Staphylococcus	5 c.c.	—	7 6
Staphylococcus	10 c.c.	—	10 9
Staphylococcus	25 c.c.	—	17 6
Staphylococcus and streptococcus	5 c.c.	—	7 6
Staphylococcus and streptococcus	10 c.c.	—	10 9
Staphylococcus and streptococcus	25 c.c.	—	17 6
Streptococcus	5 c.c.	—	7 6
Streptococcus	10 c.c.	—	10 9
Streptococcus	25 c.c.	—	17 6
Streptococcus, polyval.	1 c.c.	2 0	—
Streptococcus, polyval.	3 c.c.	4 6	—
Typhoid and paratyphoid	2x 1 c.c.	3 9	—
Typhoid and paratyphoid	5 c.c.	—	7 6
Typhoid and paratyphoid	10 c.c.	—	10 9
Typhoid and paratyphoid	25 c.c.	—	17 6
Whooping cough (pertussis)	1 c.c.	2 0	—
Whooping cough (pertussis)	3 c.c.	4 6	—
Whooping cough (pertussis)	10 c.c.	13 0	—
Whooping cough (pertussis)	25 c.c.	21 0	—
Whooping cough (prophyl. and treatment)	5 c.c.	—	10 9
Whooping cough (prophyl. and treatment)	10 c.c.	—	15 6
Whooping cough (prophyl. and treatment)	10 c.c.	—	25 0

Veterinary Serums and Vaccines B.D.H.

Selling Price	
s.	d.
Serums:	
Swine erysipelas	50 c.c. 3 6
Swine erysipelas	250 c.c. 15 0
Swine fever	50 c.c. 5 6
Swine fever	250 c.c. 25 0
Tetanus	2,000 units 2 6
Tetanus	10,000 u. 9 6
Tetanus	20,000 u. 16 0
Vaccines:	
Braxy prophylactic, 50 c.c.	7 0
Braxy prophylactic 250 c.c.	21 0
Lamb dysentery prophylactic 50 c.c.	7 6
Lamb dysentery prophylactic 250 c.c.	22 6
Swine erysipelas (living) 5 c.c.	1 0
Swine erysipelas (living) 25 c.c.	3 6

Medical Abstracts

Phenolphthalein Overdosage

STUDIES have been made on the treatment of overdosage with phenolphthalein by Fantus and Dyniewicz in America, who report their findings in the "Journal of the American Medical Association," 1938, I, p. 1657. These workers have previously shown that activated charcoal possesses an adsorbent action on phenolphthalein, whereas non-activated charcoal is almost devoid of this property. As it was found impossible to ascertain a fatal dose of phenolphthalein on experimental animals, the investigations were conducted on human beings. Evidence of this adsorbent action was shown by the decrease in the amount of the phenolphthalein eliminated in the urine after administration of activated charcoal. From observations, it is believed that activated charcoal in twenty-five times the dose of phenolphthalein lessens the elimination and hence the absorption of the latter. In twenty-five to fifty times the dose of phenolphthalein, activated charcoal considerably reduces the purgative effect. For the purpose of clearing phenolphthalein out of the bowel, castor oil was found to be more satisfactory than magnesium sulphate, but the purgation following either of these evacuants was more distressing than that from phenolphthalein alone. This applies, of course, to medicinal doses, and it is suggested that in overdosage castor oil might cut short the diarrhoeal period. The combination of activated charcoal and castor oil lessens the absorption of phenolphthalein when insufficient charcoal has been given, and the authors recommend that in cases of phenolphthalein overdosage at least twenty-five times the amount of activated charcoal should be given as early as possible diffused in water or an aerated drink such as ginger ale. Divided doses may be given, and it might be borne in mind that excess of charcoal is harmless.

Benzedrine in Psychiatry

THE application of benzedrine in psychiatry has been further investigated, and the effects of the drug in thirty-three patients suffering from minor forms of mental disease have been recorded in a recent article in the "British Medical Journal," July 9, p. 60. Doses ranging from 5 to 45 mgm. of benzedrine have been adopted in the investigations, variations in the dosage for each patient being concealed by the concurrent administration of calcium lactate. In fifteen of these patients who were treated, it was considered advisable or necessary to discontinue the drug. In another group of eleven patients a beneficial effect was claimed. As regards the physical symptoms, three of the eleven patients who benefited from benzedrine experienced no physical symptoms—the effect was confined to the psychic sphere. It was considered that the favourable central effects in the other eight outweighed the physical phenomena which occurred, although these were unpleasant. The main physical symptoms noted were headaches, giddiness and cardio-vascular manifestations such as tachycardia and chest pains. Some patients complained of blurred vision and some of loss of appetite. The best psychiatric results were obtained with the depressive patients. It appears that the drug is of perhaps the greatest value in later stages of depression, when clinical improvement has already begun. The drug was unsuccessful when administered to a depressive patient who had been accustomed to large quantities of alcohol with the object of replacing the latter by benzedrine. A complaint that the drug made them feel unnatural was made by some patients, and one person, although admitting a beneficial psychic effect, made the request that no more drug be given to him, and he left the hospital in order to escape the treatment. Varied results were noted with regard to sleep after administration of benzedrine. When it occurred, sleeplessness was not usually an unpleasant experience. Some patients reported a feeling of tiredness after taking the drug, and in others, after the effect of the drug had worn off, there appeared to be an increase in the depression. Commenting on his findings in these investigations, the author states that apart from the beneficial results outlined above, no great therapeutic value for benzedrine can be claimed, but he says that a place in psychiatry should be given to the drug if it relieves the depressed patient even temporarily. He finds that it is almost impossible in many cases to distinguish between the normal causes of recovery and the effects of the drug. Dosage, in ordinary cases, he concludes, should be between 10 and 40 mgm. daily, but in all cases the

initial dose should not be more than 10 mgm. and the optimum dose should be carefully determined. Because of the risk of intensifying depression in certain individuals, extreme caution in administering the drug should be observed.

Placental Extract in Measles

THE prophylactic use of placental extract in an epidemic of measles is reported by Parish in the "British Medical Journal," July 9, p. 65. The epidemic broke out in a girls' school, and as eighty-nine of the scholars had not previously had an attack of measles it was decided that an intramuscular injection of 4 c.c. of immune globulin should be given prophylactically. It is stated that no immediate reactions followed the injections, but stiffness and some pain was noticed after a few hours in many cases. Considering the number of cases treated, it was believed that the extract had no effect in delaying the onset of the disease, and some six weeks later seventy-five of the eighty-nine susceptibles contracted it. It was even found that, whereas 93 per cent. of those who had received a prophylactic injection developed measles, only 75 per cent. of the untreated patients contracted the disease. In the opinion of the observers, the cases in which the attack developed within three to four weeks after the injection exhibited considerably less constitutional disturbances. In the modified cases, the temperature was high and the rash pronounced, but the patients remained cheerful and undisturbed. It appears that the effect of the placental extract was most marked in mitigating the attack of measles in patients to which it was given within three weeks of the onset of the rash. As regards the dosage of the extract, it is believed that if larger amounts than 4 c.c. had been given in the epidemic the immediate effect would have been more noticeable, but at the same time there would have been more risk in deferring the peak of the epidemic to a time when the modifying effect of the extract would have been considerably diminished. The author's conclusion is that, although the extract did not prevent or postpone the attack, it made it milder and also made the duration of temperature shorter and diminished consequent complications. It is thought that the immunity conferred diminishes rapidly after three weeks.

Fatalities from Anæsthetics

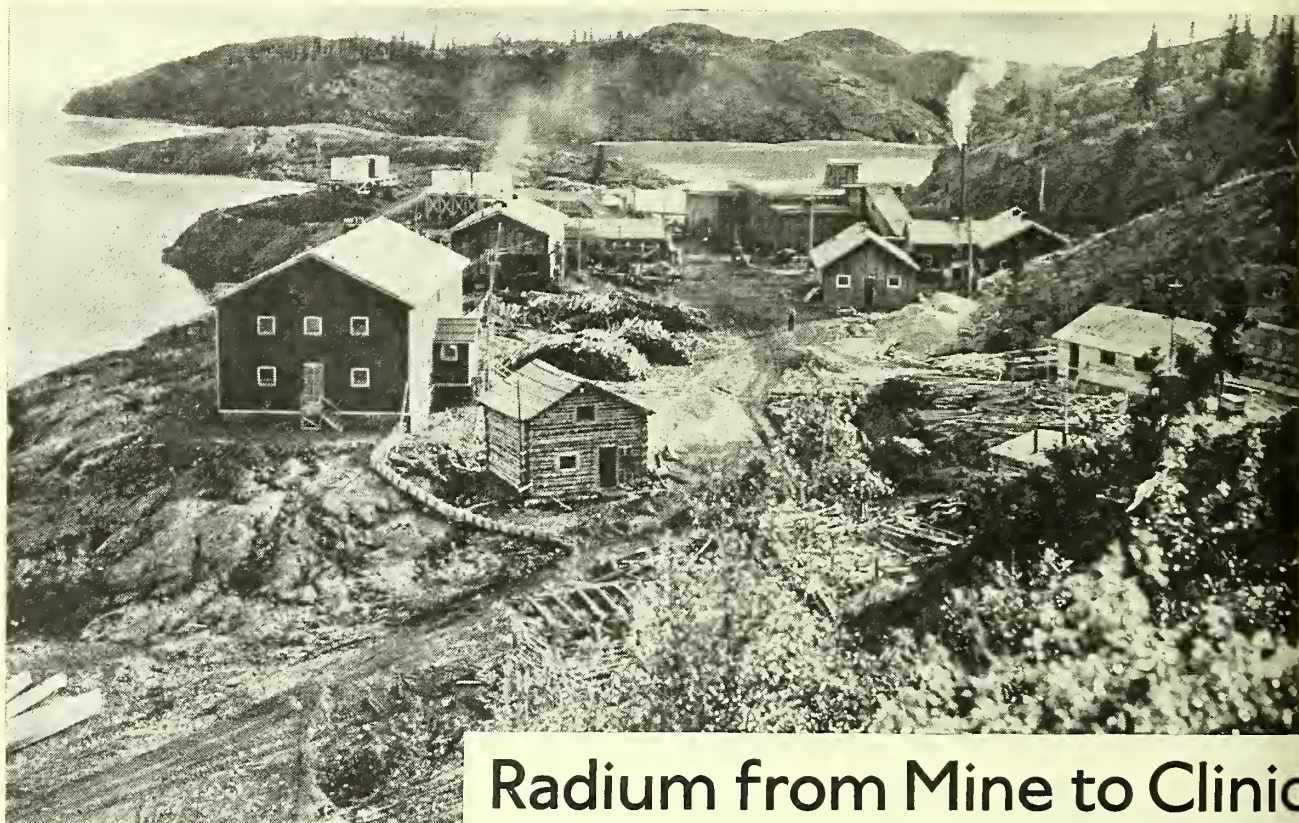
A COMPARISON of the mortality rate of avertin (tribromethylalcohol) with amylene hydrate and that of other anæsthetics is given in a survey of eight years' experience with this drug by Beecher ("Journal of the American Medical Association," July 9, p. 122). During this time, avertin with amylene hydrate was employed in 3,934 cases in a general hospital and seven deaths have been associated with its use, although it was not given in more than 10 per cent. of the cases where anæsthetics were necessary. From the details given of the effects of avertin on the various cases, it appears that six of the seven patients who died after administration of the drug exhibited an immediate depression and only one of the seven recovered full consciousness. Cyanosis was frequently observed. Some patients showed a condition which recalled the damage caused by chloroform in respect of cardiac, renal and hepatic manifestations. The figures given in the table below for the deaths attributed to avertin have been chosen conservatively and the comparison has been based on averages selected from numerous statistical studies. The view is held that an anæsthetic which produces fatal results with the frequency of avertin with amylene hydrate must injure a number of individuals whose injuries go undetected or are attributed to the patient's disease itself.

COMPARATIVE DEATH RATES

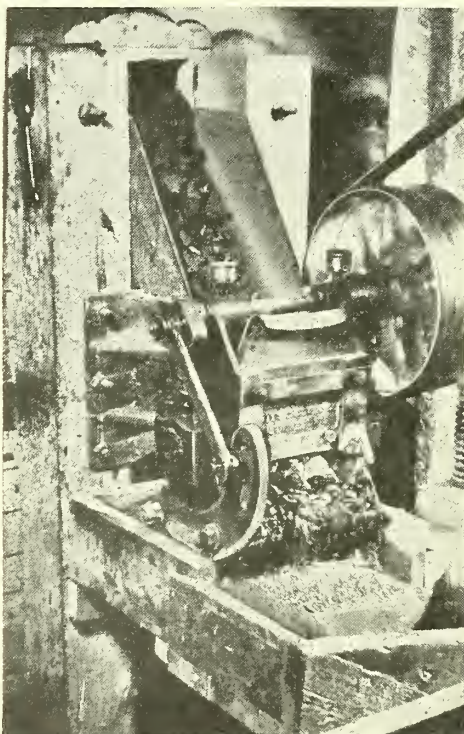
Nitrous oxide	..	..	1: 50,000
Ether	..	..	1: 3,000
Cyclopropane	..	..	1: 3,500
Chloroform	..	..	1: 2,000
Spinal anæsthesia	..	..	1: 1,500
Avertin with amylene hydrate	1:	500 (7 deaths in 3,666* cases)	
		or	
		1:	1,200†

* Excluding cases of tumour of the brain.

† Excluding four cases in which this anæsthetic will be plainly contra-indicated today.



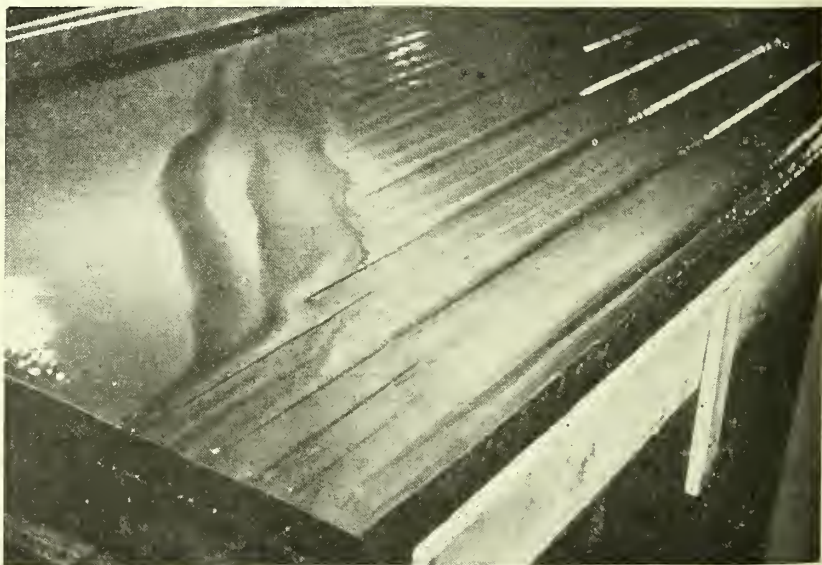
EL DORADO RADIIUM MINE. *Great Bear Lake, Canada, from which ore is blasted by 125 underground miners, in two shafts. Power is supplied by four diesel engines.*



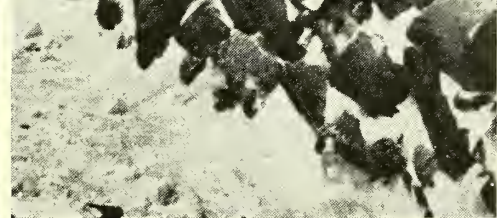
MASTICATION OF THE ORE—*The ore as mined is put into a "jaw crusher" in which the heavy and intensely hard pitch-blende is reduced to powder.*

Radium from Mine to Clinic

Radium, at £5,000 per gram, is more costly than the so-called precious metals. The high cost is due to its extreme rarity, yet radium is required in increasing quantities for therapeutic and research purposes. The richest known source is the El Dorado mine, Great Bear Lake, Canada, twenty-four miles from the Arctic Circle. Here the average annual output is about fifty grams. Mining operations commenced in 1930, after radium-bearing pitch-blende had been discovered by a prospector in search of silver (Mr. Gilbert Labine, present head of the producing company). The ore is concentrated before being transported some 4,000 miles to refineries at Port Hope, Ontario. Other metals found in the ore are silver and copper.

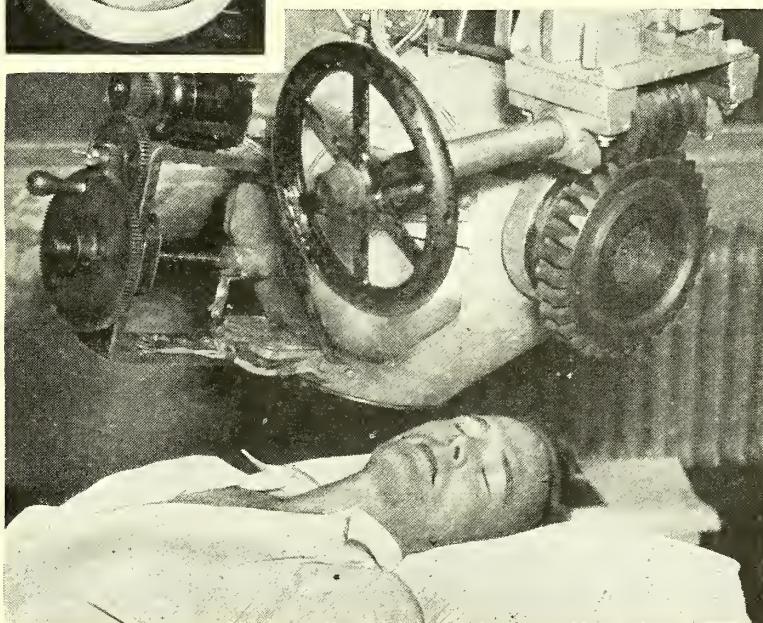


SEPARATION AND CONCENTRATION—*The crushed ore is put upon a tilted "shimmy" table. Varying specific gravities cause silver, copper and radium to settle at different levels. The black ribbons seen in the illustration are radium concentrate.*



Above, **CONCENTRATE AWAITING SHIPMENT**—Concentrated ore up to £250,000 in value is stacked at the camp without guard, because it is valueless without the refining equipment required for radium extraction.

Left, **A STAGE IN THE REFINING PROCESS**—Crystals containing barium and radium in a final stage of the separation. Their value is approximately £2,000.



Above, **PACKING CONCENTRATE FOR TRANSPORT**—All mill workers filling sacks with radium-ore concentrate must wear dust masks as a precaution. No Canadian mine-worker has yet been affected by the metal.

Right, **RADIUM IN USE AGAINST CANCER**—By means of the radium "gun" the force of a minute quantity of radium is directed towards suitable cancerous growths, which shrivel and disappear under its influence.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, August 4

THE USUAL QUIET TONE experienced at this time of the year is reported in all markets, the limited volume of business moving being confined to smallish consuming orders. Export demand from the Continent for one or two products continues in evidence. The general tone is steady, particularly where natural products are concerned. Business in PHARMACEUTICAL CHEMICALS continues on moderate lines and with the exception of a few imported products prices quoted are keeping fairly steady. British makers' prices for IODIDES, MERCURIALS, BROMIDES and similar lines continue unchanged. The demand for CRUDE DRUGS, although quiet, is fairly good in the aggregate and some of the products are distinctly firm. The strong tone in these markets is due, firstly, to the unusually low level of spot stocks and, secondly, to the firm conditions at the sources. AGAR is moving steadily on spot, mostly for re-export, and shipment offers are chiefly for Kobe No. 2 and Yokohama descriptions. CURAÇAO ALOES is an exceptionally strong market: the remaining small spot stocks are continually quoted dearer, while the source is not quoting new crop, suggesting there is practically nothing left to offer. There may be moderate stocks of old bark CASCARA SAGRADA on spot, but, in view of the much firmer conditions reported from the source, holders are tending to stiffen their quotations; here, again, the source indicates that the crop of bark brought in this season has been mostly cleared and shippers are declining to quote. Another item with similar strong conditions in the shipment market is Portuguese ERGOT; shippers state they might negotiate business on the basis of 6s. c.i.f. There are no offers of new crop Spanish, but Polish is offered at comparatively cheap prices. There is again a better tone in the forward market for Sudan GUM ACACIA. Japanese MENTHOL has remained quiet with a complete absence of speculative business; shippers' quotations are steady. PEPPERS are slightly easier on the week. Rather more business in rough round RHUBARB is reported. RUBBER in demand and closes firm. All descriptions of SENNA have been quiet, but values are fully steady. WAXES are generally unchanged and in small request at the moment. Trade in ESSENTIAL OILS shows an improvement and some products are quoted very keenly for bulk quantities. With spot stocks of good oil limited ANISE (STAR) is steady on spot. Japanese and Chinese CAMPHOR oil continues firm. Spot stocks of good quality Sicilian LEMON seem to be light and holders are maintaining their prices despite the slow demand. French Guinea ORANGE is quoted cheaply in some instances but reasonable prices have to be paid for top class oil. Californian ORANGE is quoted substantially cheaper this week. Business in Japanese PEPPERMINT has been quiet, but spot values are steady on a small supply; the shipment market shows no change.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	July 28	August 4
Amsterdam	Fls. to £	12.107	8.95	8.96
Berlin	Mks. to £	20.43	12.24	12.20
Brussels	Belgas to £	nominal	29.09	28.95
Copenhagen	Kr. to £	18.159	22.40	22.40
Lisbon	Ese. to £	110	110.5	110.5
Madrid	Ptas. to £	25.24½	nominal	nominal
Milan	Lire to £	92.46	93½	93
Montreal	Dols. to £	4.86½	4.93½	4.91½
New York	Dols. to £	nominal	4.92½	4.89½
Oslo	Kr. to £	18.159	19.90	19.90
Paris	Fr. to £	124.21	178½	178½
Prague	Kr. to £	164.25	142½	141½
Stockholm	Kr. to £	18.150	19.40	19.40
Warsaw	Zloty to £	43.38	26	25½
Zurich	Frs. to £	25.2115	21.48	21.42

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

THE markets have remained quiet during the few days of business over the holiday period. There is no change in quotations of importance to record.

ASPIRIN.—Makers' and dealers' prices are steady: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 3s.; 14 lb., 3s. 1½d.; 7 lb., 3s. 2½d.; 4 lb., 3s. 4½d.; 1 lb., 3s. 7d. per lb. Bulk packing free, net, carriage paid. Contracts over twelve months, minimum one ton; over six months, less than one ton.

BARBITONE.—Slow and unsteady: two cwt., 8s. 11d.; 56 lb., 9s. 2d.; less than 56 lb., 9s. 5d., ex store, London.

BENZOIC ACID (B.P.).—Makers' prices continue steady: five cwt., 1s. 7½d.; one cwt., 1s. 8d.; smaller parcels, from 1s. 9d. up to 2s. 2d. per lb., as to quantity.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

CITRIC ACID (B.P. CRYSTALS).—Steady demand continues. British material quoted at 1s. 0½d. per lb. less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—British makers' prices for wholesale bulk quantities are quoted as follows:—HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 6d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz.; 16-oz. packages free, smaller packing extra. The scales of prices applicable to distributors of smaller quantities are as follows:—HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; ½ oz. and less than 1 oz., 37s. 11d.; ¼ oz. and less than ½ oz., 40s. 11d. per oz. PURE CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; ½ oz. and less than 1 oz., 40s. 8d.; ¼ oz. and less than ½ oz., 43s. 8d. per oz., packages extra. Resale: Sales subject to buyers undertaking not to resell any quantity at below the scale prices for such quantity current at the time of resale. Export prices vary according to destination.

CREAM OF TARTAR.—Market is steady: British material, 99 to 100 per cent., 92s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

GUAIACOL CARBONATE.—Dealers' prices are keen at about 8s. 10d. per lb., and less for bulk quantities.

GUAIACOL (CRYSTALS).—In 14-lb. jars, 9s. 10d. per lb.; in 7-lb. bottles, 9s. 10½d.; in 1-lb. bottles, 10s. 3½d. per lb.

HEXAMINE.—Makers' prices for bulk quantities are keen: B.P. powder at about 1s. 2d.; free-running crystals, from 1s. 3d. to 1s. 6d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, one cwt., 1s. 4d.; 14 lb., 1s. 8d.; smaller parcels, up to 2s. per lb., carriage paid.

MERCURIALS.—Makers' prices continue unchanged. Net.—Without engagement. Special prices for larger quantities and for contracts. Assorted salts at bulk quantity prices.

	Less than 28 lb.	Not less than 28 lb.	Not less than 112 lb.
Ammoniated Lump B.P. (White Precip.)	s. d. 5 10	s. d. 5 6	s. d. 5 5
" Powder B.P.	6 0	5 8	5 7
Bichloride Lump B.P. (Corros. Sub.)	5 1	4 9	4 8
" Powder B.P.	4 9	4 5	4 4
Chloride B.P. Calomel	5 10	5 6	5 5
Red Oxide Cryst. B.P.C. (Red. Precip.)	6 11	6 7	6 6
" Levig. B.P.C.	6 5	6 1	6 0
Yellow Oxide B.P.	6 3	5 11	5 10
Persulphate White	6 0	5 8	5 7
Sulphide Black (Hyd. Sulph. cum. Sulph. 50%)	5 11	5 7	5 6

METHYL SALICYLATE.—Market remains quiet: spot, ten cwt., 1s. 1½d.; five cwt., 1s. 2d.; one cwt., 1s. 2½d.; less than one cwt., 1s. 3d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Remains dull and competitive: two cwt., 19s. 9d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, up to 20s. 8d. per lb.

PHENACETIN.—Small business, quoted steady: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7½d. up to 3s. per lb., as to quantity.

PHENAZONE.—Competitive and quiet: crystals, five cwt., 6s. 9½d.; two cwt., 7s.; one cwt., 7s. 3d.; and less, 7s. 6d. per lb., with powder 2½d. per lb. extra.

PHOTOGRAPHIC CHEMICALS.—Home makers' prices are as follows: AMIDOL.—28 lb., 8s.; 14 lb., 8s. 9d.; 7 lb., 9s. 6d., in free 7-lb. tin; under 7 lb., 12s. per lb., in free 1-lb. bottles. CHLORQUINOL.—1-lb. bottles, 21s. per lb. GLYCIN.—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. HYDROQUINONE.—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; in 1-lb. bottles, 6s. 6d. per lb. METOL.—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d., tins free; 3 lb., 12s.; 1 lb., 12s. 6d. per lb., bottles free. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 21s. per cwt., 28 lb. for 6s. GOLD CHLORIDE.—15-grain tubes, 45s. per doz. MAGNESIUM POWDER.—10s. per lb. PARAMIDOPHENYL HYDROCHLOR.—8s. 6d. per lb., bottles free. POTASSIUM FERRICYANIDE.—14 lb., 2s. 2d.; 7 lb., 2s. 4d.; 1 lb., 2s. 6d. per lb. POTASSIUM METABISULPHITE.—One cwt., 8d.; 28 lb., 9d.; 14 lb., 10d.; 7 lb., 1s. per lb. PYROGALLIC ACID, CRYST.—28 lb., 7s. 3d.; 14 lb., 8s.; 7 lb., 8s. 9d.; under 7 lb., 9s. 3d. per lb. SODIUM (CARBONATE RECRYST.).—5 cwt., 12s. 6d. per cwt., 1 cwt., 15s. 6d. per cwt., 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM HYOSULPHITE, CUBES, CRYST.—5 cwt., 17s.; 1 cwt., 19s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM SULPHIDE (PURE).—7 lb., 13s. 9d.; 1 lb., 2s. per lb., bottles and jars free. SODIUM SULPHIDE RECRYST.—One cwt., 21s. 6d. per cwt.; 56 lb. for 13s. 6d.; 28 lb. for 7s.

POTASSIUM PERMANGANATE (B.P.).—Quiet and at keen prices: in drums, 8½d. to 9d.; druggists' parcels, from 10d. to 1s. per lb.

POTASSIUM SULPHOGUAIACOLATE.—Business slow; quoted at about 1s. 1d. to 6s. 6d. per lb., as to quantity.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d. hydrochloride, 2s. 8½d.; dihydrochloride, 3s.; hydrobromide, 2s. 8½d.; dihydrobromide, 3s.; valerianate, 3s. 8d.; hydroposphite, 4s.; alkaloid, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—Makers' home trade prices are steady: crystals, one cwt., 5s. 5d.; 56 lb., 5s. 6d.; 28 lb., 5s. 7d.; 14 lb., 5s. 9d.; 7 lb., 6s.; smaller quantities, up to 7s. per lb.

SALICYLIC ACID (B.P.).—Dull, makers' prices steady: five cwt., 13s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 10d.; 14 lb., 1s. 11½d.; 7 lb., 2s. 0½d.; 4 lb., 2s. 2½d. per lb.

SULPHONAL.—Dull and competitive on spot: crystals or powder, two cwt., 15s. 5½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 6d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Continues steady: British makers quote at 1s. 1½d. per lb., less 5 per cent. discount, dealers offering foreign materials at competitive prices.

VANILLIN.—Convention prices are steady: ex clove oil or guaiacol, five cwt., 12s. 5d.; one cwt., 12s. 8d.; 56 lb., 13s.; less than 56 lb., 13s. 2d. per lb.

Crude Drugs, etc.

AGAR.—Fair spot demand, mostly against Continental orders, with prices steady. Shipment market is also maintained. Prices are mentioned for next season's crop: spot, Kobe, No. 1, 3s. 1½d. to 3s. 3d.; No. 2, 2s. 11d. Yokohama, No. 1, 2s. 10d. per lb.; shipment, August-September, Kobe, No. 1, 2s. 10½d. to 2s. 11d.; No. 2, 2s. 7d. Yokohama, No. 1, 2s. 7½d. per lb., c.i.f. Next season's crop, January-February shipment, Kobe, No. 1, quoted at 2s. 8½d., c.i.f.

ALOES.—Spot prices are firm, tending to go still higher for the small remaining stocks of Curaçao. No firm shipment offers from the source, but it is suggested orders might be accepted at 150s., c.i.f. Cape steady: Cape spot, 60s. to 62s.; shipment, about 57s. 6d. per cwt., c.i.f. Curaçao, spot, now quoted from 157s. 6d. to 175s. per cwt., as to quality.

ANTIMONY.—Market steady and quiet: Chinese, crude, spot, £35; shipment, August-September, £30, c.i.f. English regulus, £70 to £71 per ton, ex store.

ARECA NUTS.—Dealers report a quiet demand: quoted at about 25s. per cwt., ex store.

ARNICA FLOWERS.—Spot supplies are quoted at about 1s. 4d. per lb., ex store, for small quantities.

BALSAMS.—Business is slow: Tolu, 1s. 7½d.; Canada, spot, 3s. 3d.; shipment, 3s.; Copaiba, Para, 1s. 8d. Peru is rather cheaper on the spot, with sellers at about 4s. 3d. per lb., ex store, duty paid.

BENZOIN.—Not much inquiry. Siam: medium almonds, £26; bean and pea, £22; pea size, £20 per cwt., ex store. Sumatra quoted from 70s. to 90s. per cwt., ex store.

BUCHU.—Quotations for all descriptions are unchanged at last week's figures. Business of no importance.

CAMPHOR.—Small demand, quoted unchanged: Japanese monopoly, BB brand, £7 10s. per 100 lb.; this price now officially quoted; Japanese, natural, spot, tablets, 2s. 6½d.; powder, 2s. 3d.; slabs, 2s. 2½d. per lb., ex store; shipment, tablets, 2s. 2d.; powder, 1s. 11½d.; slabs, 1s. 11½d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz. and ¾ oz., 3s. 6d. per lb.

CASCARA SAGRADA.—Spot values for old bark are fully steady: 1936 peel, 58s. 6d.; 1937 peel, 55s. per cwt., ex store. It is reported there

are no offers of this season's peel from shippers, but there may be one or two re-sellers at not less than 44s. per cwt., c.i.f.

CLOVES.—Values are being steadily maintained, market quiet: Zanzibar, spot, 8½d.; shipment, August-September, 8½d. per lb., c.i.f. Madagascar, in bond, 7½d.; shipment, August-September, 7d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended July 30 were nil, and the deliveries nil, leaving a stock of 1,462. From January 1 to date the landings of Zanzibar have been 1,004, and the deliveries 1,511. Landings of Madagascar for the week ended July 30 were nil, and the deliveries 16, leaving a stock of 1,358. From January 1 to date the landings of Madagascar have been 1,131 and the deliveries 1,849 packages.

COCONUT (DESICCATED).—Market continues rather easy, business quiet: spot, fine, 17s.; medium, 17s. per cwt.; shipment, halves, August-September, 15s. 6d.; October-November, 15s. 9d. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market continues dull and quoted unchanged: finest Lofoten steam refined, non-freezing medicinal oil, 90s. per barrel, c.i.f. London. Small lots, on spot, about 132s. 6d. per barrel, ex store, duty paid. British finest medicinal oil, 115s. per 25-gallon drum, delivered U.K. with rebates for 25 or more drums.

COLCHICUM.—Market is dull: spot root at about 46s. to 47s. 6d. per cwt., as to quantity.

COLOCYNTH PULP.—Keen quotations against a limited inquiry: spot from 1s. to 1s. 3d. per lb., as to quality and quantity.

DAMIANA LEAVES.—New crop leaves are quoted at about 9d. to 9½d. per lb., ex store.

DERRIS ROOT.—Root testing 17 per cent. ether extract quoted in the region of 7d. to 7½d. per lb., ex store; shipment, 5 per cent., rotenone, 7½d. per lb., c.i.f.

DIGITALIS LEAVES.—Quoted steadily on a quiet market: Continental parcels on spot at 85s. to 90s. per cwt., as to quality.

ERGOT.—Offers of new crop Portuguese are lacking, but a price as much as 6s., c.i.f., has been indicated. New crop Polish, however, is again slightly cheaper, with business reported done at 3s. 9d., c.i.f. No Russian offering. Spot supplies negligible except for a parcel of old crop Spanish, which is held in London and offered at 6s. 5d. per lb., ex store.

GINGER.—Values about level on the week, but the market tends to be unsteady: West African, spot, 27s. 6d.; for arrival, 25s. 6d. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 70s. to 85s.; small grinding, in bags, 45s. to 47s. 6d. per cwt., c.i.f.

GUM ACACIA.—The tone is rather firmer this week, although business is of small account: Kordofan, cleaned sorfs, spot, 39s.; shipment, 36s. 6d. per cwt., c.i.f.

HENNA.—Continues firm at high figures, supplies very short: Egyptian, brown, 32s. 6d.; green, if available, about 42s. 6d. per cwt., ex store.

HONEY.—Market is dull and quoted unchanged: new crop Jamaican quoted from 29s. for dark manufacturing up to 45s. for pale set. Californian, duty paid, 52s. 6d. Canadian, 55s., ex store.

HYDRASTIS.—Some small business reported, with values keeping steady: spot, 23 hydrastin, 14s. 9d. to 15s.; U.S.P., 14s. 6d. to 14s. 9d.; and untested, 14s. to 14s. 3d.; shipment, U.S.P., 14s. 3d. per lb., c.i.f., if available.

IODINE.—The Convention price for the crude material continues steady at 10s. per kilogram.

IPECACUANHA.—The shipment market is firmer: Matto Grosso, B.P., spot, 7s. to 7s. 3d.; shipment, lowest 6s. 6d. per lb., c.i.f.

IRISH MOSS.—Dealers' prices steady: quoted about 45s. to 60s. per cwt., for small parcels of the best qualities.

JALAP.—Some inquiry, market steady: 13.3 per cent., 1s. 1d.; 10.5 per cent., 10d. per lb., ex store.

JUNIPER BERRIES.—Remains quiet: good sifted quality on spot at about 25s., per cwt., ex store.

KOLA NUTS.—African halves on spot quoted from 2½d. to 3d. per lb., as to quality. St. Lucia halves, about 4d. per lb., for good bright quality.

MENTHOL.—Market has been quiet over the holidays, with the tone steady: K/S brands, 13s. 1½d. to 13s. 3d.; shipment, September, 11s. 4½d., c.i.f. No offers of the October-December position. Chinese, spot, 12s. 9d., with no shipment offers. French manufacture is quoted from 12s. per lb., duty paid, in cases of six 5-lb. tins.

MERCURY.—First-hand distributors of Spanish-Italian report there is no change in the shipment price at 69 dollars per bottle, f.o.b., Continent; spot, £13 18s. to £13 18s. 6d. per bottle, ex store, London.

PEPPER.—Values easier on the week, business quiet: Lampong, in bond, 2½d.; shipment, August-October, 2½d.; October-December, 2½d., c.i.f. Tellicherry, spot, 4d.; shipment, August-October, 33s., c.i.f. Aleppy, spot, 4d.; shipment, August-October, 33s. 6d., c.i.f. White Muntok, in bond, 4d.; shipment, August-October, 3½d., c.i.f. London Terminal Market: Black, August, 2½d.; October, 2½d.; White, July, 3½d.; October, 4d.; December, 4½d. per lb.

PIMENTO.—Market has been quiet: spot, 8½d. per lb.; shipment, August-September, 72s. 6d. per cwt., c.i.f.

RHUBARB.—Rather more business for the rough round variety: Shensi, best quality, 4s. 6d. to 5s.; old, very slightly wormy, 3s. 9d. to 4s. Rough round, 2s. to 2s. 1½d. per lb., as to quality; shipment, good quality, 1s. 5½d.; inferior to f.a.q., 1s. 3½d. per lb., c.i.f.

RUBBER.—Market closes firm, with a fair business passing: standard ribbed smoked sheet, spot, 7½d.; August, 7½d.; September, 7½d.; October-December, 7½d.; January-March, 7½d. per lb.

SEEDS.—**ANISE.**—Spot, duty paid, Spanish, 60s.; Bulgarian, 38s.; Syrian, 38s. **CANARY.**—All prices quoted are spot, duty paid: Mazagan, 17s. 6d.; Turkish, 15s. 6d.; Plate, 15s.; Spanish, 25s. to 37s. 6d. **CARAWAY.**—Dutch, spot, 34s. 6d., duty paid, and 28s. 6d., f.o.b. Holland. **CORIANDER.**—Spot, old crop, 19s., duty paid; new crop offered at 18s. 3d., duty paid; for shipment, 15s., c.i.f., quoted. **CUMIN.**—Spot, Malta, 48s., duty free; Morocco, 48s., duty paid; and 44s., in bond. New crop Morocco for shipment quoted at 49s., c.i.f.; no business passing. **FENNEL.**—Indian, on spot, 27s. **MUSTARD.**—English, 20s. to 32s., according to quality.

SENEGA.—Quoted fully steady, with little available here: spot, 2s. 1d. to 2s. 2d.; shipment, July-September, 1s. 8½d. per lb., c.i.f.

SENNA.—Quotations for all descriptions of Alexandrian and Tinnevely leaves and pods continue steady at the prices reported last week. Business quiet.

SHIALLAC.—Values are lower, closing dull: spot, standard TN orange, 39s. 6d. to 42s. 6d.; fine orange, 55s. to 80s.; pure button, 50s. to 52s. 6d. per cwt. For delivery, TN, August, 39s. 6d.; October, 40s. 6d.; December, 41s. 6d. For arrival, TN, August-September, 39s. 6d. per cwt., c.i.f.

SLIPPERY ELM BARK.—Business in small lots: grinding quality, 6½d.; clippings, 8½d.; selected loose slabs, 1s. 2d.; 5-lb. wired bundles, selected quality, from 1s. 7½d. per lb., ex store.

SQUILL.—About steady, occasional inquiry: fair white on spot in the region of 27s. 6d. per cwt., ex store. New crop, No. 1, white, 22s. 6d. per cwt., c.i.f.

STRAMONIUM.—Dealers' prices are unchanged: spot from 35s. to 40s. per cwt., as to quality and quantity.

TONKA BEANS.—The demand remains quiet: fair frosted Para beans, 3s. to 3s. 1d. per lb., ex store.

TRAGACANTH.—Business is moving on a limited scale, with London quotations showing no change: finest selected white ribbon, £65; No. 1, white, £57 10s. to £60; No. 2, white, £50 to £54; No. 3, white, £35 to £42 10s.; amber, leaf, £22; cleaned amber sorts, £16; brown to amber leaf, £11 10s.; red leaf, £9 to £10; hoggy, £6 to £7 per cwt., ex store.

TURMERIC.—New crop Madras finger is quoted steadily for shipment at about 26s. per cwt., c.i.f. Spot goods are available at 28s. per cwt., ex store.

WAXES.—**BEES'.**—Quiet, with all descriptions quoted unchanged: Calcutta, bleached, spot, 125s.; shipment, August-September, 117s. 6d., c.i.f.; ordinary quality, spot, 95s.; shipment, August-September, 92s. per cwt., c.i.f.; Benguella, in bond, 90s.; shipment, August-September, 86s., c.i.f. **CONAKRY.** spot, 100s.; shipment, August-September, 87s. 6d., c.i.f. **Dar-es-Salaam.** spot, 97s. 6d.; shipment, August-September, 97s. 6d., c.i.f. **CARNAUBA.**—Market continues steady, moderate inquiry: fatty, grey, spot, 152s. 6d.; afloat, 147s. 6d.; shipment, August-September, 146s., c.i.f. **CHALKY.** grey, spot, 152s. 6d.; afloat, 146s.; shipment, August-September, 144s., c.i.f. **PRIMEIRA.** spot, good quality, 190s.; f.a.q., 185s.; afloat, 177s. 6d.; shipment, August-September, 175s., c.i.f. **Mediana.** spot, 180s.; shipment, 170s. per cwt., c.i.f.

Essential and Expressed Oils, etc.

BUSINESS moving on a limited scale only. Quoted values are mostly fairly steady with some lines competitive. Californian orange is quoted cheaper this week.

ALMOND.—Dealers report some small parcel business at steady prices: English made, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. 2d. per lb.; foreign, cwt. lots, 2s. 8d.; smaller parcels, up to 3s. 2d. per lb.; French bitter, 6s. to 6s. 1½d. per lb.

ANISE (STAR).—Due to the continued depletion of spot stocks, holders' quotations tend rather firmer: spot, leads, nominal; tins, 3s. 10½d.; drums, 3s. 8½d. to 3s. 9d. per lb., ex store; shipment, August-September, leads, nominal; tins, 3s. 2d.; drums, 3s. 1d. per lb., c.i.f.

BERGAMOT.—Business continues rather quiet. Consortium price is steady at 14s. 9d. per lb., c.i.f., for bulk quantities. Genuine new crop oil on spot is steady at 15s. to 15s. 6d. per lb., as to quantity, with old and blended oils at cheaper prices.

BOIS DE ROSE.—Business is still distinctly quiet in this product: drums of Brazilian oil about 5s. 6d., with small re-packed lots up to 6s. per lb., ex store.

CAJUPUT.—Average spot demand for small quantities: B.P., 2s. to 2s. 4½d. per lb., as to quantity.

CANANGA.—Demand quiet, with the market competitive: spot, 4s. 10½d. to 5s. 6d., according to quantity and packing; shipment, 4s. 4½d. per lb., c.i.f.

CARAWAY.—A limited spot sale, with dealers' prices unchanged: Dutch rectified, 7s. 3d. to 7s. 9d.; crude, 6s. 9d. to 7s. per lb., landed and duty paid, as to quantity.

CEDARWOOD.—Market is about steady, business limited: African in drums, 11½d.; smaller packages, up to 1s. 4d. per lb. American in drums, 11½d.; smaller packages, up to 1s. 4d. per lb.

CINNAMON LEAF.—Spot business in small lots of re-packed oil; for ward market quoted cheaply: Ceylon oil, repacked and filtered, 2s. 4½d. to 2s. 9d. per lb., ex store, as to quantity.

CITRONELLA.—Business in these oils continues slow, with quotation about unchanged: Ceylon, spot, drums, 1s. 5½d.; smaller parcels, up to 1s. 9d.; shipment, drums, 1s. 3d. per lb., c.i.f. Java, spot, drums, 1s. 10d. to 1s. 11d.; smaller parcels, up to 2s. 4d.; shipment, drums, about 1s. 4½d. per lb., c.i.f.

EUCALYPTUS.—Good brands continue to be quoted for shipment at steady figures: Australian, 70 to 75 per cent., tins, 1s. 4½d. to 1s. 5d.; drums, 1s. 4d.; 80 to 85 per cent., drums, 1s. 9d. per lb. ex store; higher prices for small lots on spot; shipment, 70 to 75 per cent., tins, 1s. 2½d.; drums, 1s. 2d.; 80 to 85 per cent., 1s. 6d. per lb., c.i.f.

GERANIUM.—Business has been of small account; shipment market dull: Bourbon, spot, 11s. 9d. to 12s. 4½d.; shipment, 10s. to 10s. 3d. c.i.f. Algerian, spot, about 12s. 9d. to 13s.; shipment, about 11s. 7½d. to 11s. 10d. per lb., c.i.f. Quotations vary as to quality.

GRAPE-FRUIT.—Dealers report average spot demand: Californian 10s. 3d. to 12s. Florida, 11s. to 12s. 6d. per lb., as to quantity.

HO (SHIU).—Market remains distinctly quiet: spot, "improved quality, 4s. to 4s. 1d.; "extra," 4s. 3d. per lb., in drums, smaller lots at higher prices, ex store; shipment, "extra," 4s. per lb., c.i.f.

JUNIPER BERRY.—A quiet spot demand, with prices ranging from 3s. 3d. up to 4s. per lb., as to quality and quantity.

LAVENDER.—The news from the source indicates that prices for new crop lavender and lavandin will be dearer on account of poor crop prospects.

LEMON.—The quantity of genuine new crop Sicilian hand-pressed oil on spot seems to be very moderate and holders are mostly declining to discount their quotations of 11s. to 11s. 3d., ex store. Business is chiefly in small lots. The shipment market, so far as business with this market is concerned, is dull with quotations ranging from 10s. 4½d. up to 10s. 9d. per lb., c.i.f. Californian distillate oil meets with a moderate demand at 6s. 4d. per lb., in small drums, landed. Sicilian, machine-made, 10s. 2d., c.i.f.

LIME.—Market is about steady as quoted: West Indian, distilled 21s. to 22s. per lb., as to quantity.

MANDARIN.—Inquiry is slow, market steady: finest quality oil at about 19s. to 20s., c.i.f., with other qualities from 17s. 6d. per lb. c.i.f.; small lots on spot from 20s. to 22s. per lb., as to quantity and quality.

NEROLI.—Dealers report a few inquiries are being dealt with and business is being negotiated at about 24s. 6d. to 27s. 6d. per oz., as to shipper.

NUTMEG.—Fair amount of small spot business reported: Dutch and American oils quoted from 5s. 4½d. for bulk lots up to 5s. 9d. per lb. for small parcels.

OLIVE.—Quotations are being steadily maintained: edible, two 5-gallon tins, 73s.; ten 1-gallon tins, 76s. 6d.; twenty ½-gallon tin 80s. 6d., packed in cases; 50-gallon drums, 6s. 1½d. per gallon, ex store.

ORANGE.—The French Guinea oil continues quiet and rather irregular on spot; shipment market neglected: spot, drums 2s. 10½d. to 3s.; and repacked oil, in tins, at about 3s. 2d. to 3s. 4½d. per lb., ex store. Shipment from the source is mentioned at about 2s. 5d., c.i.f. Oil in bond is available at about the same figure. Californian is quoted cheaper this week: spot, one case, 2s. 8½d. two or more cases, 2s. 6d.; large drums, not quoted; small drum 2s. 5d. per lb., landed; cold-pressed, 3s. 2d., c.i.f., in cases.

PEPPERMINT.—Market has remained rather quiet. Spot in limited supply and steady at 4s. 9d. to 4s. 11d. as to seller. Shippers quote September at 4s. 6d., c.i.f., and are not offering October-December. There are reported to be speculative sellers of this position at 4s. 3d. with buyers at 4s., c.i.f. American natural oil, in drums, is full steady. Quoted from 2 dollars 25 cents to 2 dollars 35 cents per lb., c.i.f.

RAISIN SEED.—Dealers' quotations steady: Californian, spot, 2s. 4d. to 2s. 6d. per lb., ex store.

ROSEMARY.—Quieter, with quoted values unchanged: Spanish oil about 3s. up to 3s. 7½d. per lb., as to quality and quantity. No shipment offers from the source. New crop Tunis oil, to come forward 2s. 8d. to 2s. 10d. per lb., landed, as to quantity.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, continues steady at 20s. 6d. per lb. Genuine East Indian, produced outside the province of Mysore, 18s. 9d. to 19s. 3d. per lb., c.i.f., in bulk quantities. English-made West Indian, 7s. 3d. per lb. Australian, steady at 15s. 3d. per lb., for 7-lb. tins; one case at 14s. 9d. and five cases at 14s. 6d. per lb.

SPEARMINT.—Values are unchanged, market steady but quiet U.S.P. oil, spot, 9s. to 9s. 3d.; shipment, 8s. 4d. per lb., c.i.f.

WORMSEED.—Occasional inquiry for limited quantities: U.S.I. oil, spot, 11s. 6d. to 11s. 6d.; shipment, 10s. 9d. per lb., c.i.f.

Commercial Notes

Nux Vomica Exports.—Shipments from French Indo-China totalled 71,023 kilograms, during January-March, 1938, against 494,021 logs, in the corresponding period of 1937. The 1938 shipments are destined to U.S.A., 30,700 kilograms.; Belgium, 20,043 kilograms., and Holland, 20,280 kilograms.

U.S.A. Pectin Exports.—Shipments during January-March, 1938, totalled 47,539 lb., valued at \$37,917. The chief destinations are as follows:—

Destination	lb.	\$	Destination	lb.	\$
Belgium ...	3,000	2,473	Argentina ...	1,600	810
Czechoslovakia ...	70	35	Union of South Africa ...	1,600	1,238
France ...	1,320	1,034	Australia ...	2,100	1,683
Netherlands ...	4,500	3,336	Norway ...	600	702
Sweden ...	800	643	Switzerland ...	1,000	900
United Kingdom ...	23,180	17,012	Cuba ...	54	50
Canada ...	5,815	6,381	Brazil ...	200	230
Mexico ...	1,700	1,390	Total ...	47,539	37,917

Japanese Camphor Exports.—Shipments during 1937, totalled 3,171,100 kin, valued at 4,774,360 yen, compared with 2,466,100 kin, valued at 4,843,122 yen in 1936. The chief destinations were as follows: India 7,207 kin (1936, 7,391 kin), United States of America, 6,735 kin (1936, 8,585 kin), France, 1,277 kin (1936, 1,741 kin), Australia, 732 kin (1936, 540 kin), Germany, 743 kin, (1936, 435 kin), Great Britain, 54 kin (1936, 660 kin).

Paraguay Petitgrain Oil Exports.—Shipments during 1937 totalled 118,149 kilograms, valued at 354,447 gold pesos (\$242,938). Prices were generally better in 1937—improving as the year advanced. While detailed figures for 1937 are not yet available, the following table gives an indication of the direction of this trade. The quantities marked "in transit" were largely for re-export to Europe.

Country of destination	Kilogram			Gold Pesos		
	1934	1935	1936	1934	1935	1936
Argentina ...	39,044	17,492	21,690	117,132	52,476	65,070
Argentina (transit) ...	11,110	24,886	19,243	33,330	74,058	57,729
Paraguay ...	13,493	29,660	23,637	40,479	88,950	70,911
Paraguay (transit) ...	1,105	3,767	900	3,315	11,301	2,880
United States ...	43,153	11,739	10,155	129,459	35,217	30,405
United Kingdom ...	2,832	4,243	2,231	6,996	12,729	6,693
Others ...	3,419	713	—	11,757	2,269	—
Total ...	114,156	92,500	77,916	342,468	277,600	233,748

World Trade in Derris Root.—According to a communication from the Colonial Institute of Amsterdam, the aggregate world export of derris root in the year 1937 amounted to about 800 metric tons. Of these, 582 tons came from Malaya, as compared with 610 tons in 1936, and 131 tons from the Netherlands Indies. As exports from the latter country were 177 tons in 1936 and as much as 318 tons in 1935, the decline begins to concern the Dutch colonial authorities, because some years ago the outlook had appeared so promising that a remarkable expansion of the cultivation in the colony took place. From an insignificant figure in the year 1934, the cultivation jumped to 240 hectare and to 1,070 hectare in 1935 and 1936, respectively, and in Malaya from 1,487 hectare to 2,606 and 4,600 hectare, while in 1937 additional plantations were developed.

London has become an important market for derris root as well as for *lonchocarpus* preparations, and the latter are competing with derris roots on the point of price, although the guaranteed (tested) derris powder and spraying mixtures and the roots themselves are comparing advantageously with the competing *lonchocarpus* from Peru and the Brazilian States of Pará and Amazonas regarding rotenone or other extract content. The world trade in *lonchocarpus* in 1937 is estimated at 1,600 tons, or double that of derris root. The Peruvian Government prescribes a maximum moisture content of exportable material of 10 per cent. of its weight, whilst the Brazilian Government is even more rigorous in this respect, as the root may be exported only when crushed. American imports of derris root from the chief supplying countries (the Netherlands Indies, Malaya and the Philippines) in the year 1937 have been reduced to 285 tons from 411 tons in 1936 (all converted into metric tons), and Malaya saw her share of American imports reduced to 182 tons from 340 tons. American imports of *lonchocarpus* rose to 828 tons from the 738 tons in 1936. Thus the American imports of *lonchocarpus* account for more than 50 per cent. of the world exports. Besides the above-named derris-producing countries, another source may become important, namely, Ceylon. A special trade feature of last year in this field has been the shifting of transit of derris root from the Netherlands Indies via Singapore to direct trade destinations.

Hungarian Crude Drug Exports.—Shipments during 1937 included the following: Chamomiles, 550 metric tons; juniper berries, 420 tons; nettle leaves, 344 tons; peppermint leaves, 198 tons; stramonium leaves, 166 tons; and rose hip, 106 tons. Other products exported during the year included elder flowers, marshmallow roots, marshmallow leaves, wormwood, dandelion root and henbane leaves. The total shipments amounted to 31,000 quintals valued at 3,400,000 pengos, compared with 27,300 quintals valued at 2,900,000 pengos in 1936.

Swiss Pharmaceutical Exports.—Exports from Switzerland during January-March 1938, with comparative figures for the first quarter of 1937, are given in the following tables:—

Product	First quarter 1937		First quarter 1938	
	Kilos.	Francs	Kilos.	Francs
Pharmaceutical preparations not specifically provided for ...	164,475	5,138,000	205,842	6,048,000
Plant alkaloids (other than nicotine)	20,430	1,056,000	45,224	1,354,000
Serums and vaccines ...	1,019	48,000	2,957	98,000
Chloroform ...	670	3,000	929	5,000
Iodoform ...	2	50	1	20
Nicotine and its compounds ...	20	500	—	—
Total ...	186,616	6,246,000	254,953	7,505,000

Tahiti Vanilla Exports.—Shipments during January-March, 1938, from the Society Islands totalled 18,303 kilog., compared with 10,964 kilog. in the corresponding quarter of 1937. France took 12,468 kilog. of the 1938 first quarter exports, compared with 9,193 in the 1937 first quarter. Shipments to the United States totalled 1,879 kilog. in the 1938 first quarter, compared with 630 kilog. in the 1937 first quarter. Vanilla is harvested twice a year in French Oceania. The principal crop is usually ready for harvesting in March and a secondary crop in October or November, depending upon the rains. It is reported that this year's March cutting was about 15 per cent. less than that of last year.

London Drug Stocks

ARRIVALS in and deliveries out of public warehouses during June and stocks at June 30, 1938, 1937 and 1936, were as follows:—

Article	Quantity or Package	June		Stocks, June 30		
		Landed	De-livered	1938	1937	1936
Aloes ...	cwt.	26	34	177	370	231
Anise (Star) ...	cwt.	—	3	41	201	144
Calumba root ...	bags	460	—	1,540	102	167
Camphor ...	packages	82	118	316	288	341
Cardamoms ...	cwt.	265	220	718	294	266
Cascara sagrada ...	tons	5	10	77	77	46
Cochineal ...	bags	10	7	45	48	52
Cubeb ...	bags	—	—	—	13	4
Dragons blood ...	cases	6	6	115	159	186
Galls (China and Japan)	cases	—	70	—	886	638
Galls (Turkey and Persian) ...	bags	2	21	171	236	174
Gums:—						
Acacia (all descriptions) ...	packages	1,840	1,964	11,497	16,226	12,372
Ammoniacum ...	packages	—	2	56	40	31
Animi ...	packages	—	32	232	364	430
Asafoetida ...	cwt.	6	145	252	361	420
Benzoin ...	cwt.	—	33	494	806	896
Copal ...	packages	4,102	2,996	15,794	14,502	17,066
Dammar ...	packages	840	2,000	6,308	6,075	4,481
Guaiacum ...	cwt.	—	12	4	41	141
Gamboge ...	cwt.	—	10	22	61	30
Kowrie ...	tons (net)	11	37	174	153	179
Mastic ...	packages	40	27	58	68	15
Myrrh. E.I. ...	packages	23	33	7	4	98
Olibanum ...	packages	134	5	304	225	246
Sandarac ...	packages	91	90	316	177	135
Tragacanth ...	packages	187	236	4,550	3,167	5,781
Ipecacuanha:—						
(Matto Grosso) ...	cwt.	42	40	39	101	256
(Other sorts) ...	cwt.	15	7	47	47	—
Nux Vomica ...	cwt.	21	—	241	18	439
Rhubarb and Rhapontica ...	cwt.	15	60	413	93	208
Sarsaparilla ...	cwt.	83	82	248	193	341
Senna ...	bales	289	379	2,204	2,713	3,912
Shellac, orange ...	cases	5,931	7,561	125,539	142,287	125,852
Turmeric (Bengal) ...	tons	6	5	19	16	73
Turmeric (Madras, Cochinchina, etc.) ...	tons	60	46	77	83	189
Waxes, bees' ...	packages	951	1,053	3,296	3,241	—
Waxes, Japanese ...	packages	348	400	320	212	323

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

Cycling Errand-Boys

SIR,—The cycling errand-boy raises another problem not discussed by "Xrayser" (*C. & D.*, July 23, p. 74)—the question of what an errand-boy will do with a trade cycle if allowed to ride it home at night. It would seem that some of them earn a little more money by the delivery of morning papers, and I have seen my paper delivered by boys riding the local butcher's or grocer's bicycle. If a boy engaged on this delivery were to cause an accident resulting in injury to some third party, who would be held responsible—the boy, the newsagent or the owner of the cycle?

Yours truly,
CYCLOPHAR (25/8).

Reminding the Prescriber

SIR,—While admitting that it may have been good business to make a display of well-known proprietary products to draw the attention of the members of the British Medical Association during their conference week (*C. & D.*, July 30, p. 94), surely here was an opportunity for the pharmacist to remind the doctors that he was able and ready to dispense their prescriptions and to compound them on his own dispensing counter. With the modern changes in medical treatment there are, of course, limitations to extemporaneous dispensing—vaccines, glandular preparations and similar products cannot be produced in the pharmacy, but when one considers that the greater number of Insurance prescriptions are for Formulary mixtures, and there is no evidence that insured persons are not treated satisfactorily by them, then it is obvious that many private patients could be treated equally well without resorting to proprietaries, if only the prescriber could write a well-thought-out prescription. A good deal has been said about the necessity of educating the public to the importance of the qualification of the pharmacist; it might be advisable if similar information were circulated periodically among doctors, or, rather, as they must have been aware of the status of the pharmacist during their hospital years, perhaps it would be better to suggest that the propaganda might take the form of a refresher course, reminding them of the pharmacists' training and abilities.

Yours faithfully,
DISPENSER (1/8).

First-Aid After Air Raid

SIR,—It is reported from Cardiff (*C. & D.*, July 30, p. 94) that a list is to be made of the average stocks of dressings at each chemist's shop, "so that some casualties can be diverted to them." Although the official intimation is that pharmacists should remain in their pharmacies, and they are not supposed to enrol under the A.R.P. scheme in case it should interfere with their duties under the Insurance contract (where the qualified person is in charge), yet in the case of war breaking out both chemists and their premises might be made use of in this way. In the event of hostilities, the A.R.P. first-aid stations would almost certainly be overwhelmed with casualties immediately after a raid, and the chemist might expect a fair number of the minor cases to be sent to the pharmacy if this intention of diverting them is carried out. In addition there would also be many persons so slightly injured that they would not think it worth while attending a first-aid post, but would go to the nearest chemist for assistance, as the public have long been accustomed to regard the pharmacy as a free first-aid station. In all this, no doubt, the pharmacist would be expected to render his help gratuitously, as I suppose he would, because it is a commonplace that chemists have always placed themselves at the service of the public, often putting this service before their own interests, but while arranging for casualties to be sent to pharmacies there should be some definite scale of payment laid down for the dressings used, cleansing utensils and premises, also some fee for the pharmacist's time and work, as these items all cost money, whether supplied by a first-aid station or the nearest chemist.

Yours faithfully,
PRO BONO PUBLICO (2/8).

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

C. G. M. (26/7).—DENTURE-CLEANING PREPARATIONS.—These can be made from the following formulas:—

I				
Sodium bicarbonate	..	..	..	3ij.
Sodium perborate	..	..	..	3ij.
Liquefied phenol	..	..	..	mx.
Thymol	..	..	..	gr. ½

II				
Borax	..	..	..	20.0
Potassium chlorate	..	..	..	8.0
Sodium perborate	..	..	..	10.0
Sodium benzoate	..	..	..	5.0
Sodium chloride	..	..	..	2.0
Menthol	..	..	..	0.5

A little is placed in a tumbler of hot water with the denture and allowed to stand from three to five minutes, then the denture is brushed in the usual way with warm water.

S. C. (25/7).—BRIGHTENING SHAMPOO.—The following are formulas for a brightening hair shampoo:—

I				
Powdered chamomile flowers	..	..	..	50
Borax	..	..	..	250
Sodium carbonate	..	..	..	500
Saponin	..	..	..	20
Soap powder	..	..	..	180
Oil of chamomile	..	..	..	1
Colouring, a sufficient quantity.				

II				
Powdered chamomile flowers	..	..	..	5
Castile soap	..	..	..	30
Coconut oil	..	..	..	10
Sodium sesquicarbonate	..	..	..	45
Borax	..	..	..	10

L. B. L. (15/7).—CARRIAGE OF DANGEROUS DRUGS.—It is scarcely possible for us to give you a list of products affected, and we suggest you apply for the lists issued by the railway companies and the Ministry of Transport in regard to road vehicles. If any of your goods are to be exported, you could obtain details of any restrictions from the Port of London Authority. Special provisions in regard to transport apply to arsenical poisons, barium salts, cyanides, nicotine, strychnine and thallium salts (*see Poisons Rule 25 and Eighth Schedule*).

M. & K. (15/7).—LABELLING CLOUDY AMMONIA.—Preparations containing less than 5 per cent. w/w NH_3 are exempted from the Pharmacy and Poisons Act, and thus deemed non-poisonous for statutory purposes. Preparations containing more than 5 per cent. must be labelled with the proportion of ammonia, the name and address of the seller, and "Poison. Not to be taken." These statutory requirements must either be on a separate label or surrounded by a line, within which there are no other words.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," August 4, 1888

The Cost of the Examination Hall

It was reported [at a meeting of the Pharmaceutical Council] that the total cost of the building was 9,235*l.* 14*s.* 1*d.*, of which 8,500*l.* had been paid. The extras consisted of 230*l.* for a porch, 250*l.* for white enamelled bricks, 240*l.* for "extras," 1,500*l.* for fittings and 915*l.* for building which had not been contemplated. These items and a few minor ones brought up the original estimate from 6,000*l.* to the larger sum named above, but as will be seen from the discussion which followed the actual expenditure is close upon 11,000*l.*

The President, in moving the adoption of the report, said that the account submitted represented the statement of general cost paid to the contractor. The original estimate was 6,000*l.*, but the committee had been compelled to increase this to 6,900*l.*, owing to the fact that they got more ground than they at first expected, so that a porch was erected, and they had also found when they began operations that they had a better basement than was expected, so that more money was expended.

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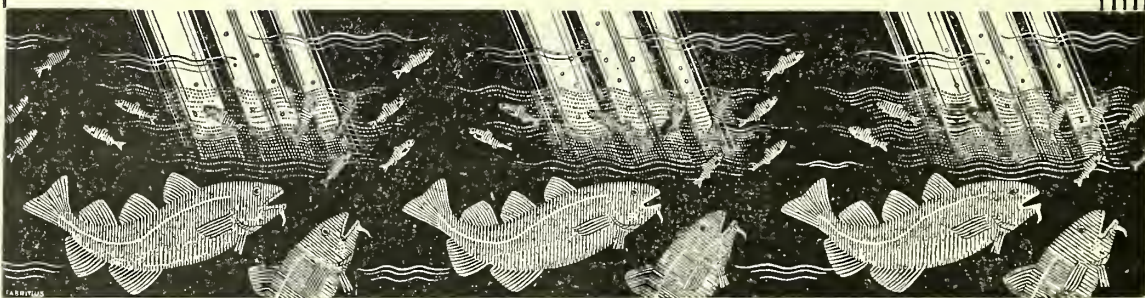
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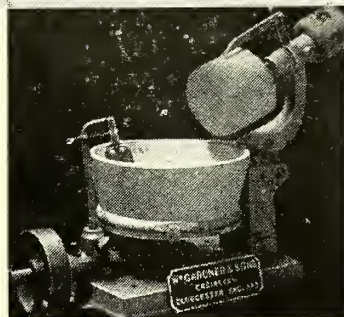
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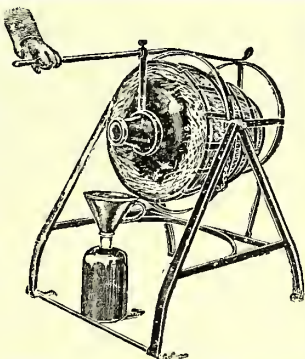
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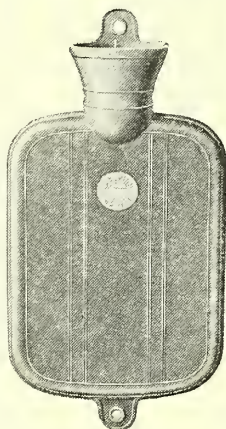
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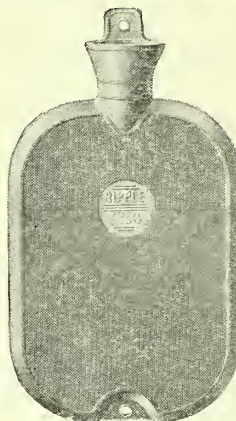
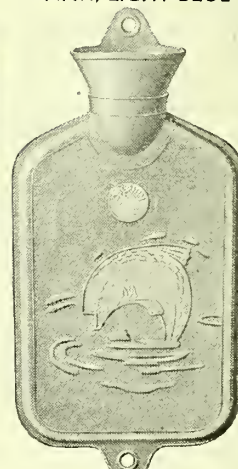
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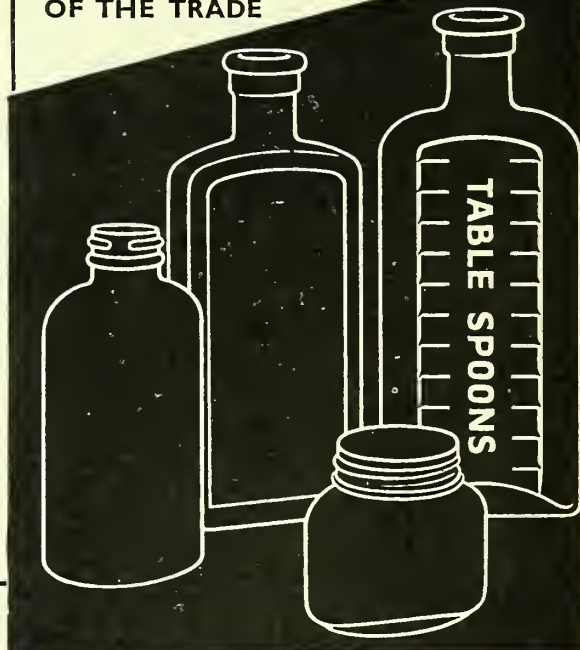
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UNQUALIFIED Junior required; good Counterman and accurate Dispenser. References and salary required to Managing Director Lovett & Bones, Ltd., Hertford Street, Coventry.

UNQUALIFIED Junior required immediately (just out of Apprenticeship preferred); permanency; conscientious, trustworthy, for Dispensing, Counter, etc. Full particulars first letter, including photo if possible (returnable), to Woollett & Coggin, Chemists, Ware, Herts.

WANTED for one month beginning August 15, Manager for small branch Drug Store; no Dispensing; would suit middle-aged man. Apply Hankinsons, Ltd., 223 Ilford Lane, Ilford.

WANTED, September 12, a young and well-experienced Unqualified Assistant (male); permanency. Usual particulars to Freeman, Pharmaceutical Chemist, St. Peter's Street, St. Albans.

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LONDON, N.W.8.—Locum, Qualified, required for September 26 to October 5, both dates inclusive; no N.H.I. work. State age, salary and usual particulars, to Chemist, 147 Park Road, London, N.W.8.

MANCHESTER.—Locum, Qualified, wanted for 3 or 4 weeks, about August 15 (assistant kept). Please give usual particulars to 249/9, Office of this Paper.

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F AR EAST.—Wanted immediately by large company, young Qualified Chemist with good general experience; 4 years' contract; passage paid out and home; good prospects for the right man. Apply, giving full particulars and recommendations, to "Orient," 331/126, Office of this Paper.

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Q UALIFIED Locum (26), free from August 29; good experience all branches; reliable; London or Suburbs. 250/21, Office of this Paper.

Q UALIFIED Manager seeks Locum engagement during holidays, September 5-17; West Country preferred; well recommended. "M.P.S.," 24 Sunbury Way, Hanworth, Middlesex.

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S TOREKEEPER seeks situation, 14 years' experience in Institution and Wholesale Chemists; knowledge of Tablet-making and general Dispensing, laboratory work, etc.; excellent references. 331/132, Office of this Paper.

Y OUNG Qualified Pharmacist, experienced in Wholesale, Manufacturing and Retail, desires post with Manufacturing or Wholesale; moderate salary if prospects good. 250/440, Office of this Paper.

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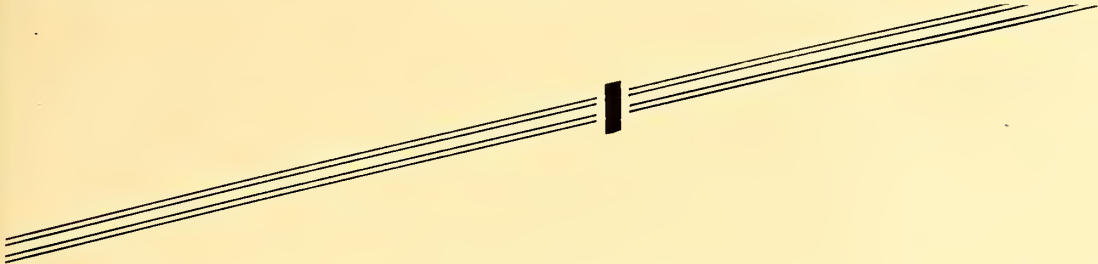
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